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SEARCH REQUEST FORM

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Date completed: <u>2/3</u>	Search Site: _____	Vendors: _____
Searcher: <u>O. Schaefer 272-2526</u>	STIC	IG
Terminal time: <u>37</u>	<u>CM-1</u> <u>FOLIO 61</u>	STN
Elapsed time: <u>12</u>	Pre-S	Dialog
CPU time: _____	Type of Search	APS
Total time: _____	<u>5</u> N.A. Sequence	Geninfo
Number of Searches: _____	A.A. Sequence	SDC
Number of Databases: _____	Structure	DARC/Questel
	Bibliographic	<u>✓</u> Other <u>Compu</u>

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OM nucleic - nucleic search, using sw model

Run on: January 29, 2004, 09:49:30 ; Search time 6 Seconds
(without alignments)
3.901 Million cell updates/sec

Title: us-09-886-942-8

Perfect score: 1767
Sequence: 1 atcagagcatatcgccga.....ttctcgagccagcgtctt 1767

Scoring table: Gapop 10.0 , Gapext 0.0

Searched: 3 seqs, 6623 residues

Total number of hits satisfying chosen parameters: 6

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 3 summaries

Database :
1: /home/sdavid/sdavid-tmp/jan04/leffers942/a01324.gb_pat:*
2: /home/sdavid/sdavid-tmp/jan04/leffers942/a01323.gb_pat:*
3: /home/sdavid/sdavid-tmp/jan04/leffers942/m60321.gb_v1:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Length	ID	Description
C 1	1719	97.3	2129	1 A01324	ACCESSION:A01324
2	1719	97.3	2133	2 A01323	ACCESSION:A01323
3	1707	96.6	2361	3 HSMIEP	ACCESSION:M60321

ALIGNMENTS

RESULT 1
A01324/c
LOCUS A01324 2129 bp DNA linear PAT 02-MAR-1993
DEFINITION Human cytomegalovirus synthetic 5' UTR (reverse complement) of
hCMV-MIE DNA.
ACCESSION A01324
VERSION A01324.1 GI:14759
KEYWORDS Human herpesvirus 5
SOURCE Human herpesvirus 5
ORGANISM Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Betaherpesvirinae; Cytomegalovirus.
REFERENCE 1 (bases 1 to 2129)
AUTHORS RECOMBINANT DNA EXPRESSION VECTORS
TITLE Patent: WO 8901036-A 2 09-FEB-1989;
JOURNAL Location/Qualifiers
FEATURES
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/organism="Human herpesvirus 5"
/mol_type="genomic DNA"
/db_xref="taxon:10359"

BASE COUNT 587 a 518 c 508 g 516 t

Query Match 97.3%; Score 1719; DB 1; Length 2129;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

QY	1	ATATAGGCTATATATGCGGATGAGCGACATCAAGCCGGGCAATGGCAATGCATATCG	60
DB	1773	ATATAGGCTATATATGCGGATGAGCGACATCAAGCCGGGCAATGGCAATGCATATCG	1714
QY	61	ATCTATACATTAATCAATATATGGCAATTAGCCATTTATTCATTTGTTATATACATTA	120
DB	1713	ATCTATACATTAATCAATATATGGCAATTAGCCATTTATTCATTTGTTATATACATTA	1654
QY	121	ATCAATATTGGCTATTGGCCATTTGCAATGTTGATTCGGTATCATTAATATGACATTTAT	180
DB	1653	ATCAATATTGGCTATTGGCCATTTGCAATGTTGATTCGGTATCATTAATATGACATTTAT	1594
QY	181	ATTGGCCCATGTCATATAGACCGGCAATGTTGATTTGATTTGATTTGATTTGATTTG	240
DB	1593	ATTGGCTCATGTCATATAGACCGGCAATGTTGATTTGATTTGATTTGATTTGATTTG	1534
QY	241	TATCATATTAGCGGGGCTATTAGTTAGTATAGCCATATATAGATTTGCGGTTACATATT	300
DB	1533	TATCATATTAGCGGGGCTATTAGTTAGTATAGCCATATATAGATTTGCGGTTACATATT	1474
QY	301	ACGTTAATATGCGCCGCTGGCTGACCGCCCAACGACCCCGCCATTTGACATTAATG	360
DB	1473	ACGTTAATATGCGCCGCTGGCTGACCGCCCAACGACCCCGCCATTTGACATTAATG	1414
QY	361	ACGTATGTTCCATATGTAACGCCAATAGGACCTTTCCATTTGATTCATATGGTGGAGTAT	420
DB	1413	ACGTATGTTCCATATGTAACGCCAATAGGACCTTTCCATTTGATTCATATGGTGGAGTAT	1354
QY	421	TTACGGTAACTGCCCACTTGGCAGTACATCAAGTATCATATGCAATGCGGCCCT	480
DB	1353	TTACGGTAACTGCCCACTTGGCAGTACATCAAGTATCATATGCAATGCGGCCCT	1294
QY	481	ATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTTAGCCAGTACATGACCTTACCG	540
DB	1293	ATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTTAGCCAGTACATGACCTTATGG	1234
QY	541	GACTTTCCTACTTGGCAGTACATCTACGTTATTAATGTCATGCTATTAACATGGTATCGG	600
DB	1233	GACTTTCCTACTTGGCAGTACATCTACGTTATTAATGTCATGCTATTAACATGGTATCGG	1174
QY	601	TTTGGCAGTACATCAATAGGGGCTGATAGCGGTTTGAATCAAGGGGATTTCCAGTCTC	660
DB	1173	TTTGGCAGTACATCAATAGGGGCTGATAGCGGTTTGAATCAAGGGGATTTCCAGTCTC	1114
QY	661	CACCCCATTTGACGTCAATGGAGTTTGTGGACCAAAATCAACGGGACTTTCCAAA	720
DB	1113	CACCCCATTTGACGTCAATGGAGTTTGTGGACCAAAATCAACGGGACTTTCCAAA	1054
QY	721	TGTGTAATATACCCCGCCCGCTTGAACGCAATGGGCGGTAGCGGTGAGGAGTTC	780
DB	1053	TGTGTAATATACCCCGCCCGCTTGAACGCAATGGGCGGTAGCGGTGAGGAGTTC	994
QY	781	TATATAGAGAGAGCTGTTTATGAAACCTGATCGCTGAGAGCGCATCCAGCTGT	840
DB	993	TATATAGAGAGAGCTGTTTATGAAACCTGATCGCTGAGAGCGCATCCAGCTGT	934
QY	841	TTTGACCTTCATAGAAAGACCGGAGCGATCCAGCTCCGGGCGGGAGCGTGCATT	900
DB	933	TTTGACCTTCATAGAAAGACCGGAGCGATCCAGCTCCGGGCGGGAGCGTGCATT	874
QY	901	GGAAGCGGATTTCCCGTCCAAAGAGTGAAGTATGCGCTTATAGACTTATAGGAC	960
DB	873	GGAAGCGGATTTCCCGTCCAAAGAGTGAAGTATGCGCTTATAGAGTATAGGAC	814
QY	961	ACCCCTTTGGC-TCTTATGCAATGCTATGCTTTTGGTGGGCTATTAACCCCGGC	1019
DB	813	ACCCCTTTGGCTTTATGCAATGCTATGCTTTTGGGCTTATTAACCCCGGC	754

QY	1020	TTCCCTTAGCTA	TAGGTATGGGTATAGCTTAGCTTAGCCATATAGGGCTGGGTATTTGACCATAT	1079	
Db	753	TTCCCTCAAGTAT	TAGGTATGGGTATAGCTTAGCTTAGCCATATAGGGCTGGGTATTTGACCATAT	694	
QY	1080	TGACCACTCCCTAT	TGGTGAAGATATCTTCCATTAATCAATCAATGATGGCTCTTTGC	1139	
Db	693	TGACCACTCCCTAT	TGGTGAAGATATCTTCCATTAATCAATCAATGATGGCTCTTTGC	634	
QY	1140	CACAACTATCTTAT	TGGCTATATGCCAATATCTGTCTCTTCAGAGCTGACAGGACTC	1199	
Db	633	CACAACTCTTAT	TGGCTATATGCCAATATCAATCAATGATGGCTCTTTGC	574	
QY	1200	TGATATTTTACAG	ATGGGGTCCATTTATTTATTAACAAATTCATATCAACAACAGCC	1259	
Db	573	TGATATTTTACAG	ATGGGGTCTCATTTATTTTAAATTCATATCAACAACAGCC	514	
QY	1260	GTCCCCCGCTG	CCCGCATGTTTTATTAACATAGCTGGGATCTCCACCGCATCTCGGGT	1319	
Db	513	GTCCCCCATG	CCCGCATGTTTTATTTAAACATACCTGGGATCTCCACCGCATCTCGGGT	454	
QY	1320	ACGTGTTCCG	GCATGAGCTCTTCTCCGGTAGCGGTGGGGCTTCCATATCCGAGCCCTGG	1379	
Db	453	ACGTGTTCCG	GCATGAGCTCTTCTCCGGTAGCGGAGCTTCAATCCGAGCCCTGC	394	
QY	1380	TCCCATGCTC	CAAGGACTCATATGATGCTCTGGCACTCTTGTCTCCAAAGTGAAGCC	1439	
Db	393	TCCCATGCTC	CAAGGACTCATATGATGCTCTGGCACTCTTGTCTTAAACAGTGAAGCC	334	
QY	1440	AGACTTAGGCA	GACAGCATGCCCCACACCACTGTGCCGCACAAAGCCGTGGCGGTA	1499	
Db	333	AGACTTAGGCA	GACAGCATATGCCACACCACTGTGCCGCACAAAGCCGTGGCGGTA	274	
QY	1500	GGGATATG	TGCTGAAATAGCTCGAGATCGGGCTCGACCGCTGACGAGATGGAAGA	1559	
Db	273	GGGATATG	TGCTGAAATAGAGCTCGGGAGCGGGCTTGACACCGCTGACGATTTGGAAGA	214	
QY	1560	CTTAAGGAGAG	GCGGAGAAAGACGACGACGCTGATGTTGTGTTCTGATTAAGAGTCA	1619	
Db	213	CTTAAGGAGAG	GCGGAGAAAGATGACAGCAGCTGATGTTGTGTTCTGATTAAGAGTCA	154	
QY	1620	GAGGTAACTC	CGCTGCGGTGCTGTTACGCTGAGGAGGCGAGTGTCTGAGCAGTACTC	1679	
Db	153	GAGGTAACTC	CGCTGCGGTGCTGTTACGCTGAGGAGGCGAGTGTCTGAGCAGTACTC	94	
QY	1680	GTTCGTGCG	CGCGCGCCACAGACATATATAGCTGACAGACTTAACGACTGTTCCCTTTCC	1739	
Db	93	GTTCGTGCG	CGCGCGCGCCACAGACATATATAGCTGACAGACTTAACAGACTGTTCCCTTTCC	34	
QY	1740	ATGGGTCTT	TCTTCTGCAATCACCGTCTT	1767	
Db	33	ATGGGTCTT	TCTTCTGCAATCACCGTCTT	6	
RESULT 2					
A01323	A01323	2133 bp	DNA	linear	PAT 08-FEB-1993
LOCUS	Human cytomegalovirus	synthetic 5' UTR of hCMV-MIE	DNA.		
DEFINITION	A01323				
ACCESSION	A01323				
VERSION	A01323.1	GI:14758			
KEYWORDS					
SOURCE					
ORGANISM					
REFERENCE					
AUTHORS					
TITLE					
JOURNAL					
FEATURES					
source					
/organism="Human herpesvirus 5"					
/mol_type="genomic DNA"					
/db_xref="taxon:10355"					
1. .2133					
location/Qualifiers					
RECOMBINANT DNA EXPRESSION VECTORS					
Patent: WO 8901036-A 1 09-FEB-1989;					
Human herpesvirus 5					
Human herpesvirus 5					
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;					
Betaherpesvirinae; Cytomegalovirus.					
1 (bases 1 to 2133)					

5'UTR	1.. 2133	/note="Promoter-enhancer hCMV-MIE"
BASE COUNT	517 a	509 c 519 g 588 t
Query Match	97.3%;	Score 1719; DB 2; Length 2133;
Best Local Similarity	97.8%;	Pred. No. 0;
Matches 1229;	Conservative 0;	Mismatches 38; Indels 1; Gaps 1;
QY	1	ATATGAGCTATATTCGCGGATAGAGGCGACATCAAGCCGGACATTCGGCCATTCGATATCG 60
DB	357	ATATGAGCTATATTCGCGGATAGAGGCGACATCAAGCTGCGACATTCGGCCATTCGATATCG 416
QY	61	ATCTATACATGGATATCAATATATGGCAATATTAACCATATATTCATTTGGTTATATAGCAATA 120
DB	417	ATCTATACATGGATATCAATATATGGCAATATTAACCATATATTCATTTGGTTATATAGCAATA 476
QY	121	ATCAATATTTGGCTATTTGGCCATTGCGATACGTTGTATCGATATCAATATATGATTAATTTAT 180
DB	477	ATCAATATTTGGCTATTTGGCCATTGCGATACGTTGTATCGATATCAATATATGATTAATTTAT 536
QY	181	ATTGGCCCATGTCCAAATATGACCGCCATGTGTACATTGATTTAGCTAGTTATTAATAG 240
DB	537	ATTGGCTCATGTCCAAATATGACCGCCATGTGTACATTGATTTAGCTAGTTATTAATAG 596
QY	241	TATATCAATTAAGGGGCTATTAGTTCAATACCCCATATATATGAGTTCCCGGCTACATACTT 300
DB	597	TATATCAATTAAGGGGCTATTAGTTCAATACCCCATATATATGAGTTCCCGGCTACATACTT 656
QY	301	ACGGTAATATGGCCCGCGCTGACCGGCCACAGACCCCGCCCATTAAGCGTCAATATAG 360
DB	657	ACGGTAATATGGCCCGCGCTGACCGGCCACAGACCCCGCCCATTAAGCGTCAATATAG 716
QY	361	ACGATATTTCCCATATAGTAACGCCAATATAGGACCTTTCCATTGACGTCATATGGGTGAGAT 420
DB	717	ACGATATTTCCCATATAGTAACGCCAATATAGGACCTTTCCATTGACGTCATATGGGTGAGAT 776
QY	421	TTACGGTAAATGTCGCCCTTGGCGAGTACATTAATATGATATCATATAGCCAAATGCCGCCCT 480
DB	777	TTACGGTAAATGTCGCCCTTGGCGAGTACATTAATATGATATCATATAGCCAAATGCCGCCCT 836
QY	481	ATTGACGTCATATGACGGTAATATGACCGCGCTGGGATATGGCCAGTACATGACCTTAACG 540
DB	837	ATTGACGTCATATGACGGTAATATGACCGCGCTGGGATATGGCCAGTACATGACCTTAACG 896
QY	541	GACTTTCCCTATCTTGGCGAGTACATCATGATATTAATGATATCGTATTTACCATATGATGATG 600
DB	897	GACTTTCCCTATCTTGGCGAGTACATCATGATATTAATGATATCGTATTTACCATATGATGATG 956
QY	601	TTTTGGCAGTATCATCATATGGGCGGTGATATGCGGTTTGATCTACCGGGGATTTCCAAATCTC 660
DB	957	TTTTGGCAGTATCATCATATGGGCGGTGATATGCGGTTTGATCTACCGGGGATTTCCAAATCTC 1016
QY	661	CACCCCATATGACGTCATATGGGAGTTTGTGTTGGACCAAAATCAACGGGACCTTTCCAAAA 720
DB	1017	CACCCCATATGACGTCATATGGGAGTTTGTGTTGGACCAAAATCAACGGGACCTTTCCAAAA 1076
QY	721	TGTGCTATATACCCCGCCCGCTTGACGCAATATGGGCGGTATGATCGGTGGAGAGTC 780
DB	1077	TGTGCTATATACCCCGCCCGCTTGACGCAATATGGGCGGTATGATCGGTGGAGAGTC 1136
QY	781	TATATTAAGCAGAGCTCGTTTATATGTAACCGTTCAGATCGCTTGAGAGACCCATCCACGCTGT 840
DB	1137	TATATTAAGCAGAGCTCGTTTATATGTAACCGTTCAGATCGCTTGAGAGACCCATCCACGCTGT 1196
QY	841	TTTGAACCTCATATGAAGAACCAGGACCGATCCAGCCTCCGCGCGCGGGAACGGTGTGATT 900
DB	1197	TTTGAACCTCATATGAAGAACCAGGACCGATCCAGCCTCCGCGCGCGGGAACGGTGTGATT 1256
QY	901	GGAACGGGGAATCCCGCTGCGCAAGATGAGTAAGTACCGGCTATATAGACTCTATAGGCAC 960
DB	1257	GGAACGGGGAATCCCGCTGCGCAAGATGAGTAAGTACCGGCTATATAGACTCTATAGGCAC 1316
QY	961	ACCCTTTGGC-TCTATATGATGCTATATCTGTTTTGGCTTTGGGGCTATATACACCCCGC 1019

Db 1317 ACCCCCTGGGCTTTCTTATGCAATGCTACTGTTTGGCGGTCTATACACCCCGC 1376
QY TTCCTATGATATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 1079
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QY 1080 TGACCACTCCCTATATGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 1139
Db 1437 TGACCACTCCCTATATGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 1496
QY 1140 CACAACTATCTATATGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 1199
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QY 1200 TGTATTTTAAAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 1259
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QY 1260 GTCCCTCCCTGCGGAGATTTTATTTAAATAGATAGATAGATAGATAGATAGATAGATAGAT 1319
Db 1617 GTCCCTCCCTGCGGAGATTTTATTTAAATAGATAGATAGATAGATAGATAGATAGATAGAT 1676
QY 1320 ACGTGTCCGGAATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 1379
Db 1677 ACGTGTCCGGAATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 1736
QY 1380 TCCCATGCTCCAGGAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 1439
Db 1737 TCCCATGCTCCAGGAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 1796
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QY 1500 GGGATATGATCTGAATAATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 1559
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QY 1620 GAGTAACTCCCTGCGGAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 1679
Db 1977 GAGTAACTCCCTGCGGAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGAT 2036
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QY 1740 ATGGGCTTTTCTGAGTACCGCTCTT 1767
Db 2097 ATGGGCTTTTCTGAGTACCGCTCTT 2124

RESULT 3
HSM5IEP 2361 bp DNA linear VRL 02-AUG-1993
LOCUS Human cytomegalovirus major immediate-early protein gene, 5' end.
DEFINITION
ACCESSION M60321
VERSION M60321.1 GI:330624
KEYWORDS immediate-early protein.
SOURCE Human herpesvirus 5
ORGANISM Human herpesvirus 5
Virus; dsDNA viruses, no RNA stage; Herpesviridae; Betaherpesvirinae; Cytomegalovirus.
REFERENCE 1 (bases 1 to 2361)
AUTHORS Chapman, B.S., Thayer, R.M., Vincent, K.A. and Haiswood, N.L.
TITLE Effect of intron A from human cytomegalovirus (Towse) immediate
Nucleic Acids Res. 19, 3937-3986 (1991)
COMMENT Original source text: Human cytomegalovirus DNA.

FEATURES
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Best Local Similarity 98.8%; Pred. No. 0;
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QY 61 ATCTAATGATGATCAATATATGCGATATGCGATATATGCTTATATATATATATATAT 120
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QY 515 ATTGCCCATGTCATATGACCGGATGATGACATATGATATATATATATATATATATATAT 574
Db 241 TATCAATTAAGGGGATATATGATATATGATATATGATATATATATATATATATATATAT 300
QY 575 TATCAATTAAGGGGATATATGATATATGATATATGATATATATATATATATATATATAT 634
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Db 2072 ATGGGTCTTTCTGCAAGTCAACCGTCTT 2099

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Search completed: January 29, 2004, 09:49:37
 Job time : 7 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 29, 2004, 09:42:38 ; Search time 6 Seconds
(without alignments)
3.901 Million cell updates/sec

Title: us-09-886-942-8

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Gapop 10.0, Gapext 0.0

Searched: 3 seqs, 6623 residues

Total number of hits satisfying chosen parameters: 6

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 3 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	1696.8	96.0	2361	3 H5SMIEP	ACCESSION:M60321
2	1696.2	96.0	2129	1 A01324	ACCESSION:A01324
3	1696.2	96.0	2133	2 A01323	ACCESSION:A01323

ALIGNMENTS

RESULT 1
H5SMIEP 2361 bp DNA linear VRL 02-AUG-1993
LOCUS Human cytomegalovirus major immediate-early protein gene, 5' end.
DEFINITION M60321
ACCESSION M60321
VERSION M60321.1 GI:330624
KEYWORDS immediate-early protein.
SOURCE Human herpesvirus 5
ORGANISM Human herpesvirus 5

REFERENCE
AUTHORS Chapman,B.S., Thayer,R.M., Vincent,K.A. and Haigwood,N.L.
TITLE Effect of intron A from human cytomegalovirus (Towne) immediate
early gene on heterologous expression in mammalian cells
JOURNAL Nucleic Acids Res. 19, 3937-3986 (1991)
COMMENT Original source text: Human cytomegalovirus DNA.
FEATURES
source location/Qualifiers

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CAAT_signal	1082..1086	
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intron	1265..2088	/number=1
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/codon_start=1		
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Best Local Similarity 98.8%; Pred. No. 0;		
Matches 1747; Conservative 0; Mismatches 17; Indels 4; Gaps 4;		
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QY	480 TATGAGCGTAATGAGCGTAATGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	539
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QY	540 GGAAGTTCTACTGCGCGCATATGCGCATATGCGCATATGCGCATATGCGCATAT	599
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Db      ||| 994 CCAACCCATTGACGTCAATGGGAGTTGTTTGGACCAAAATCAAGGAGCTTTCCAAA 1053
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RESULT 2
A01324/c
LOCUS      A01324      2129 bp      DNA      linear      PART 02-MAR-1993
DEFINITION Human cytomegalovirus synthetic 5' UTR (reverse complement) of
            HCMV-MIB DNA.
ACCESSION  A01324
VERSION    A01324.1 GI:14759
KEYWORDS
SOURCE     Human herpesvirus 5
            Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
            Betaherpesvirinae; Cytomegalovirus.
REFERENCE  1 (bases 1 to 2129)
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AUTHORS    Patent: WO 8901036-A 2 09-FEB-1989;
TITLE      Location/Qualifiers
JOURNAL
FEATURES
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BASE COUNT      587 a      518 c      508 g      516 t

Query Match      96.0%; Score 1696.2; DB 1; Length 2129;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

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RESULT 3
A01323
LOCUS A01323 2133 bp DNA linear PAT 08-FEB-1993
DEFINITION Human cytomegalovirus synthetic 5' UTR of hCMV-MIE DNA.
ACCESSION A01323
VERSION A01323.1 GI:14758
KEYWORDS
SOURCE Human herpesvirus 5
ORGANISM Human herpesvirus 5
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Betaherpesvirinae; Cytomegalovirus.
REFERENCE 1 (bases 1 to 2133)
AUTHORS
TITLE RECOMBINANT DNA EXPRESSION VECTORS
JOURNAL Patent: WO 8901036-A 1 09-FEB-1989;
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Location/Qualifiers
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BASE COUNT 517 a 509 c 519 g 588 t

Query Match 96.0%; Score 1696.2; DB 2; Length 2133;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

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Db 1797 AGACTTAGGACACGACGATGCCACCAACAGTGTGCCGACCAAGGCCGTGGCGGTA 1856
QY 1500 GGGTATGCTCTAATAATGAGCTCGGAGTCCGAGCTCGCAACGCTGACGAGATGANA 1559
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QY 1560 CTTAAGGACGCGGACGAAGAAGACGAGGAGCTGAGTGTGTCTGATTAAGATCA 1619
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Db 1977 GAGGTAACTCCGTTGGGCTGTAAACGGTGAAGGCGAGTGTAGTCTGAGCAGTACTC 2036
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QY 1740 ATGGGTCTTTTCTGACGTACCGTCTT 1767
Db 2097 ATGGGTCTTTTCTGACGTACCGTCTT 2124

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Search completed: January 29, 2004, 09:42:45
Job time : 7 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 29, 2004, 09:47:50 ; Search time 7 Seconds
(without alignments)
3.344 Million cell updates/sec

Title: us-09-886-942-8

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Scoring table: Gapop 10.0 , Gapext 0.5

Searched: 3 seqs, 6623 residues

Total number of hits satisfying chosen parameters: 6

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 3 summaries

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Pred. No. is the number of results predicted by chance to have a
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and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	1718.5	97.3	2133	2 A01323	ACCESSION:A01323
3	1705	96.5	2361	3 HSMIEP	ACCESSION:M60321

ALIGNMENTS

RESULT 1
A01324/c 2129 bp DNA linear PAT 02-MAR-1993
LOCUS Human cytomegalovirus synthetic 5' UTR (reverse complement) of
DEFINITION hCMV-MIE DNA.
ACCESSION A01324
VERSION A01324.1 GI:14759
KEYWORDS Human herpesvirus 5
SOURCE Human herpesvirus 5
ORGANISM Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Betaherpesvirinae; Cytomegalovirus.
1 (bases 1 to 2129)
REFERENCE 1 (bases 1 to 2129)
AUTHORS RECOMBINANT DNA EXPRESSION VECTORS
TITLE Patent: WO 8901036-A 2 09-FEB-1989;
JOURNAL Location/Qualifiers
FEATURES 1..2129
source /organism="Human herpesvirus 5"
/mol_type="genomic DNA"
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BASE COUNT 587 a 518 c 508 g 516 t

Query Match 97.3% ; Score 1718.5 ; DB 1 ; Length 2129 ;
Best Local Similarity 97.8% ; Pred. No. 0 ;
Matches 1729 ; Conservative 0 ; Mismatches 38 ; Indels 1 ; Gaps 1 ;

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DB	1773	ATATGAGCCTATTCGCCGATATGAGCGACATCAAGCGCTGGCAATGAGCAATATGCTATTCG	1714
QY	61	ATCTATACATTTGAATCAATATTTGGCAATTTAGCCATATTTATTTATTTATTTATTTAG	120
DB	1713	ATCTATACATTTGAATCAATATTTGGCCATTTAGCCATATTTATTTATTTATTTATTTAG	1654
QY	121	ATCAATATTTGGCTATTTGGCCATTTGGCATACGTTTATTCGCTATTCATATATTTATTTAT	180
DB	1653	ATCAATATTTGGCTATTTGGCCATTTGGCATACGTTTATTCATATATTTATTTATTTAT	1594
QY	181	ATTGGCCCATTTGCCATATTTAGCCGATTTGACATTTGATTTATTTATTTATTTATTTAG	240
DB	1593	ATTGGCTCATTTGCCAATTTACCGCCATTTGACATTTATTTATTTATTTATTTATTTAG	1534
QY	241	TATCAATTTAGGGGCTATTTAGTTGATATGCCCCATATATTTATTTATTTATTTATTTAG	300
DB	1533	TATCAATTTAGGGGCTATTTAGTTGATATGCCCCATATATTTATTTATTTATTTATTTAG	1474
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DB	1473	ACGTTAAATTTGGCCGCTGCTGACCGCCCAAGACCCCGCCCATTTGACATTTATTTAG	1414
QY	361	ACGTTATTTCCCATTTAGTAAAGCCCAATTTAGGACTTTTCATTTGACATTTATTTAG	420
DB	1413	ACGTTATTTCCCATTTAGTAAAGCCCAATTTAGGACTTTTCATTTGACATTTATTTAG	1354
QY	421	TTAGGTTAACTGCGCCACTGTCGATCATCAAGTTATTTATTTATTTATTTATTTATTTAG	480
DB	1353	TTAGGTTAACTGCGCCACTGTCGATCATCAAGTTATTTATTTATTTATTTATTTATTTAG	1294
QY	481	ATTGACGTCAATGAGGTAAATTTAGCCGCTGCTGATTTATTTGACATTTATTTATTTAG	540
DB	1293	ATTGACGTCAATGAGGTAAATTTAGCCGCTGCTGATTTATTTGACATTTATTTATTTAG	1234
QY	541	GACTTCTCTACTTGGCAGTACATCTAGATTTATTTATTTATTTATTTATTTATTTAG	600
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DB	1173	TTTTGGCAGTACATTTATTTAGGCTGATTTAGCGTTTATTTATTTATTTATTTATTTAG	1114
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QY	781	TATATTAAGAGAGCTCTTTAGTGAACGCTCAATTCGCTGAGAGACGCTATTCAGGCTGT	840
DB	993	TATATTAAGAGAGCTCTTTAGTGAACGCTCAATTCGCTGAGAGACGCTATTCAGGCTGT	934
QY	841	TTTGAACCTTCATTAAGAGACACCGGAGCCGATCCAGCTCCGGGCGGGAGCGGTGATT	900
DB	933	TTTGAACCTTCATTAAGAGACACCGGAGCCGATCCAGCTCCGGGCGGGAGCGGTGATT	874
QY	901	GGAACGCGGATTTCCCGTGCAGAGTGAAGTATTCGCTTATTTATTTATTTATTTAG	960
DB	873	GGAACGCGGATTTCCCGTGCAGAGTGAAGTATTCGCTTATTTATTTATTTATTTAG	814
QY	961	ACCCCTTTGGC-TCTTTATGATGCTATTTATTTATTTATTTATTTATTTATTTATTTAG	1019
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QY	1020	TTCCCTTAATGCTATAGATGATGGTATATAGCTTATGACCTATAGAGCGGTGGGTATTAAGACATAT	1079
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QY	1080	TGACCACCTCCCTCATTTGGTGAAGATATCTTCCATTAATCAATACATGATGGCTCTTTGC	1139
Db	693	TGACCACTCCCTCATTTGGTGAAGATATCTTCCATTAATCAATACATGATGGCTCTTTGC	634
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QY	1200	TGATATTTTACAGGATAGGGGTCCTCAATTTATTTACAAATTCATATTAACAACAAGCC	1259
Db	573	TGATATTTTACAGGATAGGGGTCCTCAATTTATTTACAAATTCATATTAACAACAAGCC	514
QY	1260	GTCCTCCCGTCCCGGAGTTTTTATTAATAATAGCTGGGATCTCCAGCCGATCTCGGGT	1319
Db	513	GTCCTCCAGTCCCGGAGTTTTTATTAATAATAGCTGGGATCTCCAGCCGATCTCGGGT	454
QY	1320	ACGTGTTCCGACATAGGCTCTTCTCCGATAGCGGTGGGGCTTCCATCCGAGCCCTGG	1379
Db	453	ACGTGTTCCGACATAGGCTCTTCTCCGATAGCGGTGGGGCTTCCATCCGAGCCCTGC	394
QY	1380	TCCCATGCTCCAGGACATCAATGTCGCTCCGCACTCTCTTGCTCTTAACATGGAAGGCC	1439
Db	393	TCCCATGCTCCAGGACATCAATGTCGCTCCGCACTCTCTTGCTCTTAACATGGAAGGCC	334
QY	1440	AGACTTAAAGCAGACGATGCCACCAACCACTGTGCGCACAAAGCCGTGGCGGTA	1499
Db	333	AGACTTAAAGCAGACGATGCCACCAACCACTGTGCGCACAAAGCCGTGGCGGTA	274
QY	1500	GGGATGTGTCTGAATAATGAGCTGGAGATGGGGCTGCACCCGCTGACGACATGGAAGA	1559
Db	273	GGGATGTGTCTGAATAATGAGCTGGAGAGCGGGCTTGCAACGCTGACGCAATTTGGAAGA	214
QY	1560	CTTAAGGACAGCGGCAAGAAAGAACCCAGGACGCTGATGTTGTCTCTGATTAAGATCA	1619
Db	213	CTTAAGGACAGCGGCAAGAAAGATACAGGACGCTGATGTTGTCTCTGATTAAGATCA	154
QY	1620	GAGTAACTCCCGTGCAGGTCTGTTAAACGGTGAAGGGCAGTGTAGTCTGAGCAGTACTC	1679
Db	153	GAGTAACTCCCGTGCAGGTCTGTTAAACGGTGAAGGGCAGTGTAGTCTGAGCAGTACTC	94
QY	1680	GTTGTGCGCGCGCGGCCACACAGACATATATAGCTGACATTAACGACTGTCTCTTCC	1739
Db	93	GTTGTGCGCGCGCGGCCACACAGACATATATAGCTGACATTAACGACTGTCTCTTCC	34
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Db	33	ATGGGTCTTTTCTGCAGTCAACGCTCTT	6
RESULT 2			
LOCUS	A01323	2133 bp	DNA linear PAT 08-FEB-1993
DEFINITION	Human cytomegalovirus synthetic 5' UTR of hCMV-MIE DNA.		
ACCESSION	A01323		
VERSION	A01323.1	GI:14758	
KEYWORDS			
SOURCE	human herpesvirus 5		
ORGANISM	Human herpesvirus 5		
Viruses; dsDNA viruses, no RNA stage; Herpesviridae; Betaherpesvirinae; Cytomegalovirus.			
REFERENCE	1 (bases 1 to 2133)		
AUTHORS	RECOMBINANT DNA EXPRESSION VECTORS		
TITLE	Patent: WO 8901036-A 1 09-FEB-1989;		
JOURNAL	Location/Qualifiers		
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SOURCE	/organism="Human herpesvirus 5"		
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Best Local Similarity	97.8%	Pred. No. 0;
Matches 1729;	Conservative 0;	Mismatches 38; Indels 1; Gaps 1;
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QY	61	ATCTAATCATGTAAATCAATATTGGCAATTTACCATPATATTCAATGGTTATATAGCATAA 120
DB	417	ATCTAATCATGTAAATCAATATTGGCAATTTACCATPATATTCAATGGTTATATAGCATAA 476
QY	121	ATCAATATTGGCTATTGGCAATTCATACGTTGATCCGATCAAAATATGTACATTTAT 180
DB	477	ATCAATATTGGCTATTGGCAATTCATACGTTGATCCGATCAAAATATGTACATTTAT 536
QY	181	ATTGGCCCATGTCCAATATGACCGCCATGTTGACATTTGATGACTAGTTATTATAG 240
DB	537	ATTGGCCCATGTCCAACATTTACCCCAATGTTGACATTTGATGACTAGTTATTATAG 596
QY	241	TAAATCAATTAGGGGGTCAATTGATCATAGGCCCATATATATGAGGTTCCGGGTACATACCT 300
DB	597	TAAATCAATTAGGGGGTCAATTGATCATAGGCCCATATATATGAGGTTCCGGGTACATACCT 656
QY	301	ACGGTAAATATGGCCCGCGCTGACCGGCCCAACGACCCCGCCCATTTGACGTCATATATG 360
DB	657	ACGGTAAATATGGCCCGCGCTGACCGGCCCAACGACCCCGCCCATTTGACGTCATATATG 716
QY	361	ACGATATGTTCCCATAGTAAACGCCAATATAGGACCTTCCATTTGACGTCATATGSGTGAAT 420
DB	717	ACGATATGTTCCCATAGTAAACGCCAATATAGGACCTTCCATTTGACGTCATATGSGTGAAT 480
QY	421	TTAGCGTAAATGCGCCCTGGGCGATCATTAAGTATATCAATAGCCAGTCCGCCCT 480
DB	777	TTAGCGTAAATGCGCCCTGGGCGATCATTAAGTATATCAATAGCCAGTCCGCCCT 836
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DB	837	ATTGACGTCATGACGGTAAATGAGCCGCGCTGCGATTATGGCCGATACATGACCTTAC 896
QY	541	GACATTTCCCTAGTGGCAGTACATCTACGATTTAGTCAATCGTATTTACCATGATGATGCG 600
DB	897	GACATTTCCCTAGTGGCAGTACATCTACGATTTAGTCAATCGTATTTACCATGATGATGCG 956
QY	601	TTTTGGCAGTATCATCAATGAGCGGTGATATGCGGTTTGACTCAAGGGGATTTCCAAAGTCTC 660
DB	957	TTTTGGCAGTATCATCAATGAGCGGTGATATGCGGTTTGACTCAAGGGGATTTCCAAAGTCTC 1016
QY	661	CACCCCATATGACGTCATATGGGAGTTGTTTGGGACCAAAATCAACGGGAGCTTTCCAAA 720
DB	1017	CACCCCATATGACGTCATATGGGAGTTGTTTGGGACCAAAATCAACGGGAGCTTTCCAAA 1076
QY	721	TGTGATATATAACCCCGCCCGTTTACGCAAAATGGGCGGTAGCGGTGATACGTTGGGAGGTC 780
DB	1077	TGTGATATATAACCCCGCCCGTTTACGCAAAATGGGCGGTAGCGGTGATACGTTGGGAGGTC 1136
QY	781	TATATTAAGCAGAGCTGTTTATGTGAACCGTATACATGCGCTTGAGAACCCCATCCACGCTGT 840
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QY	901	GGAACGGCGGATATCCCGGTGCCAAGATGATGATACCGCTTATATAGCTTATATAGGCAC 960
DB	1257	GGAACGGCGGATATCCCGGTGCCAAGATGATGATACCGCTTATATAGCTTATATAGGCAC 1316
QY	961	ACCCCTTTGGC-TCCTAAGCATGCTATACGTGTTTGGGCTTGGGGCTATACACCCCGC 1019

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Db	1377	TTCTCAATGTTATAGTATGATGATGATAGCTTAAGCTTAAGTGATGGGTTATTGACCAATTA	1436
Qy	1080	TGACCACTCCCCCTAATGGTGAAGATCTTTCCATTACTAATCCATAATGAGCTCTTTGCG	1139
Db	1437	TGACCACTCCCCCTAATGGTGAAGATCTTTCCATTACTAATCCATAATGAGCTCTTTGCG	1496
Qy	1140	CACAACATCTCTAATTTGGCTAATATGCGCAATCTGTCCTTCAGAGACTGACAGGACTC	1199
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Qy	1260	GTCCCCCGCTGCCCGCATTTTTATTAAACAATAGCGTGGATCTCCAGCGAATCTCGGCT	1319
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Qy	1440	AGACTTAAGGACAGACGATGCCACCAACCAAGTGTGCCGACAAAGCCGTGGCGGTA	1499
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Qy	1560	CTTAAGGACAGCGGACGAGAAGAACCGACAGGACGTAGTGTGTGTCTGATTAAGAGTCA	1619
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Qy	1620	GAGGTAATCCCGTTCGCGTCTGTAAACGATGAGGGCAGATGTAAGTCTGACAGTAATC	1679
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RESULT 3	
HSMIEP	
LOCUS	HSMIEP 2361 bp DNA linear VRL 02-AUG-1993
DEFINITION	Human cytomegalovirus major immediate-early protein gene, 5' end.
ACCESSION	M60321
VERSION	M60321.1 GI:330624
KEYWORDS	immediate-early protein.
SOURCE	Human herpesvirus 5
ORGANISM	Human herpesvirus 5 Viruses; dsDNA viruses, no RNA stage; Herpesviridae; Betaherpesvirinae; Cytomegalovirus. 1 (bases 1 to 2361)
REFERENCE	Chapman,B.S., Thayer,R.M., Vincent,K.A. and Haijwood,N.L. Effect of intron A from human cytomegalovirus (Towne) immediate early gene on heterologous expression in mammalian cells Nucleic Acids Res. 19, 3937-3986 (1991)
JOURNAL	Original source text: Human cytomegalovirus DNA.
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Matches 1747; Conservative	0; Mismatches 17; Indels 4; Gaps 4;	
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QY	61 ATCTAATCATGAATCAATATTTGGCAATTAGCCATATTATTCATTTGGTTATATAGATAA	120
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QY	361 ACGTATGTTCCCATAGTAAACGCATATAGAGGACTTTCATTTGACGTCATAGTGGTGAAT	420
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 29, 2004, 09:40:01 ; Search time 5 seconds

(without alignments)
4.681 Million cell updates/sec

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Total number of hits satisfying chosen parameters: 6

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Post-processing: Minimum Match 0%
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Listing first 3 summaries

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Pred. No. is the number of results predicted by chance to have a
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and is derived by analysis of the total score distribution.

SUMMARIES

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2	1695.7	96.0	2133	2 A01323	ACCESSION:A01323
3	1694.8	95.9	2361	3 HSMWEP	ACCESSION:M60321

ALIGNMENTS

RESULT 1
A01324/c
LOCUS
DEFINITION
A01324 2129 bp DNA linear PAT 02-MAR-1993
Human cytomegalovirus synthetic S' UTR (reverse complement) of
hCMV-MIE DNA.

ACCESSION A01324
VERSION A01324.1
KEYWORDS GI:14759
SOURCE Human herpesvirus 5
ORGANISM Human herpesvirus 5
VIRUSES: dsDNA viruses, no RNA stage; Herpesviridae;
Betaherpesvirinae; Cytomegalovirus.

REFERENCE 1 (bases 1 to 2129)

AUTHORS
TITLE RECOMBINANT DNA EXPRESSION VECTORS
JOURNAL Patent: WO 8901036-A 2 09-FEB-1989;
FEATURES Location/Qualifiers
source 1. 2129

BASE COUNT 587 a 518 c 508 g 516 t

Query Match 96.0%; Score 1695.7; DB 1; Length 2129;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

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Qy	61	ATCTATACATTAATCAATATATGCAATATGCAATATGCAATATGCAATATGCAATATG	120
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Qy	121	ATCAATATGCTATATGCGCATATGCAATATGCAATATGCAATATGCAATATGCAATATG	180
Db	1653	ATCAATATGCTATATGCGCATATGCAATATGCAATATGCAATATGCAATATGCAATATG	1594
Qy	181	ATTGCGCCATGTCATATGACCCGATGTCATATGCAATATGCAATATGCAATATGCAATATG	240
Db	1593	ATTGCGCCATGTCATATGACCCGATGTCATATGCAATATGCAATATGCAATATGCAATATG	1534
Qy	241	TATCAATATGAGGGGATATGATATGCAATATGCAATATGCAATATGCAATATGCAATATG	300
Db	1533	TATCAATATGAGGGGATATGATATGCAATATGCAATATGCAATATGCAATATGCAATATG	1474
Qy	301	ACGTAATATGCGCCGCTGCTGACCGCCCAAGCCCGCCCATTTGACATTAATG	360
Db	1473	ACGTAATATGCGCCGCTGCTGACCGCCCAAGCCCGCCCATTTGACATTAATG	1414
Qy	361	ACGTAATATGCGCCGCTGCTGACCGCCCAAGCCCGCCCATTTGACATTAATG	420
Db	1413	ACGTAATATGCGCCGCTGCTGACCGCCCAAGCCCGCCCATTTGACATTAATG	1354
Qy	421	TTACGTAATATGCGCCGCTGCTGACCGCCCAAGCCCGCCCATTTGACATTAATG	480
Db	1353	TTACGTAATATGCGCCGCTGCTGACCGCCCAAGCCCGCCCATTTGACATTAATG	1294
Qy	481	ATTGACGTCATATGAGCGTAATATGCGCCGCTGCTGACCGCCCAAGCCCGCCCATTTGACATTAATG	540
Db	1293	ATTGACGTCATATGAGCGTAATATGCGCCGCTGCTGACCGCCCAAGCCCGCCCATTTGACATTAATG	1234
Qy	541	GACTTCTCTACTTGGCAGTACATCTAGTATGATGCTATTAATGATGATGCGG	600
Db	1233	GACTTCTCTACTTGGCAGTACATCTAGTATGATGCTATTAATGATGATGCGG	1174
Qy	601	TTTTGGCAATATCAATATGCGCGTGTGATGCGCGTGTGATGCGCGTGTGATGCGCGTGTGATGCGG	660
Db	1173	TTTTGGCAATATCAATATGCGCGTGTGATGCGCGTGTGATGCGCGTGTGATGCGCGTGTGATGCGG	1114
Qy	661	CACCCATGACGTCATATGAGGAGTTGTTTGGCAACCAATCAAGCGGACTTTCCAAA	720
Db	1113	CACCCATGACGTCATATGAGGAGTTGTTTGGCAACCAATCAAGCGGACTTTCCAAA	1054
Qy	721	TGTCGTAATACCCCGCCCGCTGACGCAATATGCGCGTGTGATGCGCGTGTGATGCGCGTGTGATGCGG	780
Db	1053	TGTCGTAATACCCCGCCCGCTGACGCAATATGCGCGTGTGATGCGCGTGTGATGCGCGTGTGATGCGG	994
Qy	781	TATATAGAGAGAGCTGTTTATGTAACCGTCAAGTTCGCTGAGAGCGCATCAAGCTGT	840
Db	993	TATATAGAGAGAGCTGTTTATGTAACCGTCAAGTTCGCTGAGAGCGCATCAAGCTGT	934
Qy	841	TTTGACCTCATATGAGAGACCGGACCGATCCAGCTCCGCGCGCGGAGAGCGTGCATT	900
Db	933	TTTGACCTCATATGAGAGACCGGACCGATCCAGCTCCGCGCGCGGAGAGCGTGCATT	874
Qy	901	GGAACCGGATTCGCCGTCGAAGAGTGAAGTACCGCTTATAGACTTATAGGAC	960
Db	873	GGAACCGGATTCGCCGTCGAAGAGTGAAGTACCGCTTATAGACTTATAGGAC	814
Qy	961	ACCCCTTTGGC-TCTTATGATGCTATATGTTTGGTGGGCTTATACCCCGCG	1019
Db	813	ACCCCTTTGGC-TCTTATGATGCTATATGTTTGGTGGGCTTATACCCCGCG	754

QY	1020	TTCCCTTAATGCATATAGGTAGTGGTATAGCTTGATGACCATATAGGGGTGGGTATTTAGACATTAAT	1079
Db	753	TTCCCAATGTTATATAGTATAGTATAGCTTATAGCTTATAGTGGTATTTAGACATTAAT	694
QY	1080	TGACCACCTCCCTATATGGTGTGACGATACCTTCCATTAATTCATTAACATGATGGCTCTTTGGC	1139
Db	693	TGACCACCTCCCTATATGGTGTGACGATACCTTCCATTAATTCATTAACATGATGGCTCTTTGGC	634
QY	1140	CACAACTATCTCTATTTGGCTATATGCCAAATACCTGTCTTCCAGAGACTGACAGGACTC	1199
Db	633	CACAACTCTCTTATTTGGCTATATGCCAAATACCTGTCTTCCAGAGACTGACAGGACTC	574
QY	1200	TGTAATTTTAAACAGATATGGGGTCCCATTTATTAATTTACAAATTCATTAACAAGAGCC	1259
Db	573	TGTAATTTTAAACAGATATGGGGTCCCATTTATTAATTTACAAATTCATTAACAAGAGCC	514
QY	1260	GTCCCCCTGCCCCGAGTTTATTAATTAACATAGCCTGGGATCTCCACGCAATCTCGGGT	1319
Db	513	GTCCCCCAATGCCCCGAGTTTTTATTAATTAACATAGCTGGGATCTCCACGCAATCTCGGGT	454
QY	1320	ACGTGTTCCGACATAGGACTCTTCTCCGGTATAGCGGTGGGGCTTCCATCCGAGCCTTGG	1379
Db	453	ACGTGTTCCGACATAGGACTCTTCTCCGGTATAGCGCGGAGGCTTCTCATCCGAGCCTTGGC	394
QY	1380	TCCCATGCTCCAGGAGCTCATATGCTGCTCGGAGCTCTTGGTCCCAACATGTGAGAGCC	1439
Db	393	TCCCATGCTCCAGGAGCTCATATGCTGCTCGGAGCTCTTGGTCTTAACATGTGAGAGCC	334
QY	1440	AGACTTAGGCACAGCAGCATGCGCCACACACACAGTGTGCCGCAAGAGCCGTGGGGTA	1499
Db	333	AGACTTAGGCACAGCAGCATGCGCCACACACACAGTGTGCCGCAAGAGCCGTGGGGTA	274
QY	1500	GGGTATGTGTCTGAATAATGAGCTCGAGATCGGGCTCGACCGCTGACGACATGTGAGA	1559
Db	273	GGGTATGTGTCTGAATAATGAGCTCGGGAGCGGGCTTCGACCGCTGACGATTTGGAAGA	214
QY	1560	CTTAAGGACGCGGCGAGAGAAGACGACAGCAGCTGATGTTGTGTTCTGATTAAGAGTCA	1619
Db	213	CTTAAGGACGCGGCGAGAGAAGATGACGAGCTGATGTTGTGTTCTGATTAAGAGTCA	154
QY	1620	GAGGTAACTCCGTTGCGCGTCTGTTAACGTTGAGGAGGACAGTGTATGTTGACAGTACTC	1679
Db	153	GAGGTAACTCCGTTGCGCGTCTGTTAACGTTGAGGAGGACATGTATGTTGACAGTACTC	94
QY	1680	GTTGCTGCGCGCGCGGCCACACAGACATATAATGCTGACAGACTAAACGACTGTTCCCTTCC	1739
Db	93	GTTGCTGCGCGCGCGGCCACACAGACATATAATGCTGACAGACTAAACAGACTGTTCCCTTCC	34
QY	1740	ATGGGTCTTTTCTGCAATCACCGTCTT	1767
Db	33	ATGGGTCTTTTCTGCAATCACCGTCTT	6
RESULT 2			
LOCUS	A01323	2133 bp	DNA linear PAT 08-FEB-1993
DEFINITION	Human cytomegalovirus synthetic 5' UTR of hCMV-MIE DNA.		
ACCESSION	A01323		
VERSION	A01323.1	GI:14758	
KEYWORDS	Human herpesvirus 5		
SOURCE	Human herpesvirus 5		
ORGANISM	Human herpesvirus 5		
REFERENCE	1 (bases 1 to 2133)		
AUTHORS	RECOMBINANT DNA EXPRESSION VECTORS		
TITLE	Patent: WO 8901036-A 1 09-FEB-1989;		
JOURNAL	Location/Qualifiers		
FEATURES	1..2133		
SOURCE	/organism="Human herpesvirus 5"		
	/mol_type="genomic DNA"		
	/db_xref="taxon:10359"		

	5'UTR	1..2133	/note="Promoter-enhancer hCMV-MIE"	
BASE COUNT	517 a	509 c	519 g	588 t
Query Match	96.0%;	Score 1695.7;	DB 2;	Length 2133;
Best Local Similarity	97.8%;	Pred. No. 0;	Mismatches 38;	Indels 1;
Matches 1729;	Conservative 0;	Gaps 1;		

OY	1	ATATGAGGCTATATCGCCGATAGGGGACATCAAGCCGGACACTTGGCCATTCGATATCG	60
Dd	357	ATATGAGGCTATATCGCCGATAGGGGACATCAAGCTGGCACATGGCCAATGATATCG	416
OY	61	ATCATATCATTGAATCAAAATATTGGCAATTAGCCATAATTATTCATGGTTATATAGCAATA	120
Dd	417	ATCATATCATTGAATCAAAATATTGGCAATTAGCCATAATTATTCATGGTTATATAGCAATA	476
OY	121	ATCAATATTGGCTATTGGCAATTGCATACGTGTATCCGATCAATAATATGATCAATTTAT	180
Dd	477	ATCAATATTGGCTATTGGCAATTGCATACGTGTATCCGATCAATAATATGATCAATTTAT	536
OY	181	ATTGGCCCATGTCCAAATATGACGCCCATGTTTGACATTGATTAATTGACTTAATTAATAG	240
Dd	537	ATTGGCCCATGTCCAAATATGACGCCCATGTTTGACATTGATTAATTGACTTAATTAATAG	596
OY	241	TAAATCAATTACGGGGTCATTAGTTCAATAGCCCATATATNGAGCTCCGCGTACAATACTT	300
Dd	597	TAAATCAATTACGGGGTCATTAGTTCAATAGCCCATATATNGAGCTCCGCGTACAATACTT	656
OY	301	ACGGTAATATGGCCCGCGCTGGCTGACCGCCCAACGACCOCGCCCATTAGCGTCAATATAG	360
Dd	657	ACGGTAATATGGCCCGCGCTGGCTGACCGCCCAACGACCOCGCCCATTAGCGTCAATATAG	716
OY	361	ACGTAATGTTCCCATATGATGACGCCCAATAGGGACTTTTCATTGACGTCAATGGGTGAGTAT	420
Dd	717	ACGTAATGTTCCCATATGATGACGCCCAATAGGGACTTTTCATTGACGTCAATGGGTGAGTAT	776
OY	421	TTAAGGTAATCGCCCACTTGCGGAGTACATCAATATGATCAATAGCCAAAGTCCGCCCT	480
Dd	777	TTAAGGTAATCGCCCACTTGCGGAGTACATCAATATGATCAATAGCCAAAGTCCGCCCT	836
OY	481	ATTGACGTCATATGACGGTAAATGSCCGCGCTGCGATTATGCGCCAGTACATGACCTTACGG	540
Dd	837	ATTGACGTCATATGACGGTAAATGSCCGCGCTGCGATTATGCGCCAGTACATGACCTTATAG	896
OY	541	GACTTTCCTACTTGGGAGTACATCTACGTATTAGTCAATCGCTATTACCATGTGATCGCG	600
Dd	897	GACTTTCCTACTTGGGAGTACATCTACGTATTAGTCAATCGCTATTACCATGTGATCGCG	956
OY	601	TTTTTGGCAGATACATCAATGSGCCGTGATATGCGTTTACATCAGCGGGAATTTCCAAAGTCT	660
Dd	957	TTTTTGGCAGTACATCAATGSGCCGTGATATGCGTTTACATCAGCGGGAATTTCCAAAGTCT	1016
OY	661	CACCCCAATGACGTGCATATGGGAAGTTTGTTTGGGACCCAAATCAACGGGACTTTCCAAA	720
Dd	1017	CACCCCAATGACGTGCATATGGGAAGTTTGTTTGGGACCCAAATCAACGGGACTTTCCAAA	1076
OY	721	TGTGTAATATACCCCCCGCCGTTGACGCAATATGGGCGGTGATACGCTGGAGAGTCT	780
Dd	1077	TGTGTAATATACCCCCCGCCGTTGACGCAATATGGGCGGTGATACGCTGGAGAGTCT	1136
OY	781	TATATTAAGCAGAGCTGTTTATAGTAAACCGTCAGATCGCTTGAGAACCCCATCCACGCTGT	840
Dd	1137	TATATTAAGCAGAGCTGTTTATAGTAAACCGTCAGATCGCTTGAGAACCCCATCCACGCTGT	1196
OY	841	TTTGAACCTCAATGAAGAACAACGGGACCGATCCAGCTCCGCGCGCGGGAACGGTGCATT	900
Dd	1197	TTTGAACCTCAATGAAGAACAACGGGACCGATCCAGCTCCGCGCGCGGGAACGGTGCATT	1256
OY	901	GGAACGCGGATATCCCCTGCGCAAGATGACGTAAAGTACCGCTTATAGACTTATATAGGCAC	960
Dd	1257	GGAACGCGGATATCCCCTGCGCAAGATGACGTAAAGTACCGCTTATATAGACTTATATAGGCAC	1316
OY	961	ACCCCTTGGC-TCATTAGCATGCTACTAGTITTTGGCTTGGGGCTATACACCCCCGC	1019

	RESULT 3
HSMIEP	HSMIEP
LOCUS	2361 bp DNA linear VRL 02-AUG-1993
DEFINITION	Human cytomegalovirus major immediate-early protein gene, 5' end.
ACCESSION	M60321
VERSION	M60321.1 GI:330624
KEYWORDS	immediate-early protein.
SOURCE	Human herpesvirus 5
ORGANISM	Human herpesvirus 5 Viruses; dsDNA viruses, no RNA stage; Herpesviridae; Betaherpesvirinae; Cytomegalovirus. 1 (bases 1 to 2361)
REFERENCE	Chapman,B.S., Thayer,R.M., Vincent,K.A. and Haigwood,N.L. Effect of intron A from human cytomegalovirus (Towme) immediate early gene on heterologous expression in mammalian cells Nucleic Acids Res. 19, 5937-5986 (1991)
TITLE	Original source text: Human cytomegalovirus DNA.
JOURNAL	
COMMENT	

LQIMLRKEV

4: aps

ATCG 60

ATCG 394

ATAA 120
|||||

ALMA 434

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1
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1111
ATAC 574

ACTT 300

ACTT 634

AAATG 360

AAATG 693

076
TYT
G

013

TACG 539

1111
TACG 873

pharm

QY 540 GGAATTCTTCTACTGGGAGATACATCTACGATTAATGATGCTATTAATCAATGGTATGCG 599
 DB 874 GGAATTCTTCTACTGGGAGATACATCTACGATTAATGATGCTATTAATCAATGGTATGCG 933
 QY 600 GTTTGGCAGTACATCAATGGGAGTATGCGGTTTGAATCAAGGGGATTTCCAACTCT 659
 DB 934 GTTTGGCAGTACATCAATGGGAGTATGCGGTTTGAATCAAGGGGATTTCCAACTCT 993
 QY 660 CCAACCCATTGACGTCATGAGGAGTTGTTTGGCACAATAATCAAGGAGCTTTCCAAA 719
 DB 994 CCAACCCATTGACGTCATGAGGAGTTGTTTGGCACAATAATCAAGGAGCTTTCCAAA 1053
 QY 720 ATGTCTTAATTAACCCCGCGCTTGAAGCAATGGGCGGTGATCGGTGAGGAGT 779
 DB 1054 ATGTCTTAATTAACCCCGCGCTTGAAGCAATGGGCGGTGATCGGTGAGGAGT 1113
 QY 780 CTATATAGAGAGCTGTGTTAGTGAACCGTCAGATGCGCTGGAGAGCCATCCAGCTG 839
 DB 1114 CTATATAGAGAGCTGTGTTAGTGAACCGTCAGATGCGCTGGAGAGCCATCCAGCTG 1173
 QY 840 TTTTGACCTCCATAGAAAGACACCGGAGCCGATCCAGCTCCGCGCGGAGACGCTGAT 899
 DB 1174 TTTTGACCTCCATAGAAAGACACCGGAGCCGATCCAGCTCCGCGCGGAGACGCTGAT 1233
 QY 900 TGGAAACGGGATTCCTCCGTCGCAAGAGTGAAGTAAGTACCGCTATAGACTTATAGGCA 959
 DB 1234 TGGAAACGGGATTCCTCCGTCGCAAGAGTGAAGTAAGTACCGCTATAGACTTATAGGCA 1293
 QY 960 CACCCCTTTGGCTCTTATGATGCTATACGTTTGGCTTGGGCGCTATACACCCCGCG 1019
 DB 1294 CACCCCTTTGGCTCTTATGATGCTATACGTTTGGCTTGGGCGCTATACACCCCGCG 1353
 QY 1020 TTCTTATGCTAATAGATGATGATAGCTTACGCTATAGGCGTGGTTATTTGACCATTA 1079
 DB 1354 -TCTTATGCTAATAGATGATGATAGCTTACGCTATAGGCGTGGTTATTTGACCATTA 1412
 QY 1080 TGAACCACTCCCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1139
 DB 1413 TGAACCACTCCCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1472
 QY 1140 CACAACTATCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1199
 DB 1473 CACAACTATCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1532
 QY 1200 TGTATTTTACAGGATGGGATCCCATTTATTAATAAGCGTGGATCTTCACGCGAATCTGGGT 1259
 DB 1533 TGTATTTTACAGGATGGGATCCCATTTATTAATAAGCGTGGATCTTCACGCGAATCTGGGT 1592
 QY 1260 GTCCCGCGTCCGCGAGTTTATTAATAAGCGTGGATCTTCACGCGAATCTGGGT 1319
 DB 1593 GTCCCGCGTCCGCGAGTTTATTAATAAGCGTGGATCTTCACGCGAATCTGGGT 1652
 QY 1320 ACGGTTCGCGAGATGGGCTCTTCGCGTGAAGCGGTGGGCTTCCATCCGAGCCCTGG 1379
 DB 1653 ACGGTTCGCGAGATGGGCTCTTCGCGTGAAGCGGTGGGCTTCCATCCGAGCCCTGG 1712
 QY 1380 TCCCATGCTCCAGCGATCATGGTCTGCGAGCTCTTGCTCCCAACAGTGAAGGCC 1439
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 QY 1440 AGACTTAAGGAGACAGATGCCACCAACCAAGTGTGCCGCAAAAGGCGGTGGCGGTA 1499
 DB 1773 AGACTTAAGGAGACAGATGCCACCAACCAAGTGTGCCGCAAAAGGCGGTGGCGGTA 1832
 QY 1500 GGGTATGTGTCTGAAAATGAGCTGGAGATGGGCTGCGACCGTGAAGTGAAGA 1559
 DB 1833 GGGTATGTGTCTGAAAATGAGCTGGAGATGGGCTGCGACCGTGAAGTGAAGA 1891
 QY 1560 CTTAAGGAGAGGAGAAAGACGAGGAGCTGAGTTGTGTTCTGATAAGAGTCA 1619
 DB 1892 CTTAAGGAGAGGAGAAAGATGACGAGCTGAGTTGTGTTCTGATAAGAGTCA 1951
 QY 1620 GAGGTAACTCCGTTGGGTCTGTTAAACGATGAGAGGAGTGTAGTCTGAGCAGTATCTC 1679

DB 1952 GAGGTAACTCCGTTGGGTCTGTTAAACGATGAGAGGAGTGTAGTCTGAGCAGTATCTC 2011
 QY 1680 GTTGCTGCGCGCGCGCACAGACATATAGCTGACAGACTTAACGAGCTGTTCTTCC 1739
 DB 2012 GTTGCTGCGCGCGCGCACAGACATATAGCTGACAGACTTAACGAGCTGTTCTTCC 2071
 QY 1740 ATGGGTCTTTTCTGACAGTCAACCGTCTT 1767
 DB 2072 ATGGGTCTTTTCTGACAGTCAACCGTCTT 2099

Search completed: January 29, 2004, 09:40:08
 Job time : 6 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: January 29, 2004, 23:58:53 ; Search time 660 Seconds
(without alignments)
9757.472 Million cell updates/sec

Title: US-09-886-942-8

Perfect score: 1 ataggagctatcgcgcga.....ttctgcagtcacgcgtcctt 1767

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 2434939 seqs, 1822278265 residues

Total number of hits satisfying chosen parameters: 4869878

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications NA.*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	1741.4	98.6	1767	9	US-09-886-942-21
3	1737.8	98.3	6408	10	US-09-996-128A-1
4	1737.8	98.3	6485	10	US-09-996-128A-2
5	1728.6	97.8	1767	9	US-09-886-942-5
6	1728.6	97.8	1767	9	US-09-886-942-15
7	1727	97.7	1767	9	US-09-886-942-16
8	1725.4	97.4	1767	9	US-09-886-942-14
9	1720.6	97.0	1767	9	US-09-886-942-18
10	1714.2	97.0	1765	9	US-09-886-942-13
11	1698.8	96.1	1766	9	US-09-886-942-6
12	1695.2	95.9	13254	13	US-10-016-986-156
13	1695.2	95.9	13254	13	US-10-016-986-170
14	1681.6	95.2	1767	9	US-09-886-942-19
15	1669.8	94.5	1757	9	US-09-886-942-17

16	1665	94.2	1757	9	US-09-886-942-11	Sequence 11, Appl
17	1662.2	94.1	1758	9	US-09-886-942-2	Sequence 2, Appl1
18	1620.4	91.7	6845	15	US-10-239-804-6	Sequence 6, Appl1
19	1619	91.6	3893	10	US-09-798-675-3	Sequence 3, Appl1
20	1614.4	91.4	3894	10	US-09-798-675-1	Sequence 1, Appl1
21	1611.4	91.2	1715	9	US-09-886-942-7	Sequence 7, Appl1
22	1606.2	90.9	4867	15	US-10-149-640-16	Sequence 16, Appl
23	1606.2	90.9	4945	15	US-10-149-640-9	Sequence 9, Appl1
24	1603	90.7	1766	9	US-09-886-942-1	Sequence 1, Appl1
25	1601.8	90.7	1715	9	US-09-886-942-10	Sequence 10, Appl1
26	1595.6	90.3	1716	9	US-09-886-942-4	Sequence 4, Appl1
27	1594.2	90.2	5301	15	US-10-096-373-8	Sequence 8, Appl1
28	1594.2	90.2	5316	15	US-10-096-373-11	Sequence 11, Appl1
29	1590.6	90.0	15538	13	US-09-190-246-1	Sequence 1, Appl1
30	1583	89.6	3897	13	US-10-336-566-1	Sequence 1, Appl1
31	1583	89.6	3925	13	US-10-336-566-2	Sequence 2, Appl1
32	1582	89.5	3925	13	US-10-336-566-3	Sequence 3, Appl1
33	1582	89.5	10466	13	US-10-336-566-14	Sequence 14, Appl
34	1582	89.5	10466	13	US-10-336-566-15	Sequence 15, Appl
35	1581.6	89.5	10447	13	US-10-336-566-10	Sequence 10, Appl
36	1581.6	89.5	10447	13	US-10-336-566-11	Sequence 11, Appl
37	1581.6	89.5	10447	13	US-10-336-566-12	Sequence 12, Appl
38	1581.6	89.5	10447	13	US-10-336-566-13	Sequence 13, Appl
39	1579	89.4	4622	10	US-09-846-091-11	Sequence 11, Appl
40	1579	89.4	5089	13	US-09-993-307-2	Sequence 2, Appl1
41	1579	89.4	5089	13	US-09-993-307-5	Sequence 5, Appl1
42	1579	89.4	5488	13	US-09-993-307-3	Sequence 3, Appl1
43	1579	89.4	5488	13	US-09-993-307-6	Sequence 6, Appl1
44	1579	89.4	5500	13	US-09-993-307-1	Sequence 1, Appl1
45	1579	89.4	5500	13	US-09-993-307-4	Sequence 4, Appl1

ALIGNMENTS

RESULT 1
US-09-886-942-8
; Sequence 8, Application US/09886942
; Patent No. US20020081708A1
; GENERAL INFORMATION:
; APPLICANT: PUNNONEN, JUHA
; WRIGHT, ANNE
; SEMONOV, ANDREY
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
; FILE REFERENCE: 02-031910US US/09/886, 942
; CURRENT APPLICATION NUMBER: 2001-06-21
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 1767
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-886-942-8

Query Match 100.0%; Score 1767; DB 9; Length 1767;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1767; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATATGAGGCTATATGCGCATAGAGCGCATCAAGCCGCGCATGCGCAATGATATCG 60
DB 1 ATATGAGGCTATATGCGCATAGAGCGCATCAAGCCGCGCATGCGCAATGATATCG 60
QY 61 ATCTATACCTTGAATCAATATGCGCATATGCGCATATTTGATGTTATATAGATATA 120
DB 61 ATCTATACCTTGAATCAATATGCGCATATGCGCATATTTGATGTTATATAGATATA 120

SEQ ID NO: 81
= COTRANSLATED

OY	121	ATCAATATGGGTAATGGCAATGATACAGTGGTATCCGTAACATAATATGACATTTAT	180
Db	121	ATCAATATGGGTAATGGCAATGATACAGTGGTATCCGTAACATAATATGACATTTAT	180
OY	181	ATTGGCCCATGTCCAAATATGACCGCCATGTTGACATTTATTAATGACTAGTTATTAATAG	240
Db	181	ATTGGCCCATGTCCAAATATGACCGCCATGTTGACATTTATTAATGACTAGTTATTAATAG	240
OY	241	TAAATCAATTAAGGGGTCAATTAGTTATAGCCCATATATAGAGTTCCGGGTTATCAATACTT	300
Db	241	TAAATCAATTAAGGGGTCAATTAGTTATAGCCCATATATAGAGTTCCGGGTTATCAATACTT	300
OY	301	ACGGTAATATGGCCCGCTGGCTGACCGGCCAAACGACCCCGCCATTACGTCAAATAATG	360
Db	301	ACGGTAATATGGCCCGCTGGCTGACCGGCCAAACGACCCCGCCATTACGTCAAATAATG	360
OY	361	ACGATATGTTCCCATATGTAACGCCAATAGGAGCTTTTCAATTGACGTCAATGGGTGAGAT	420
Db	361	ACGATATGTTCCCATATGTAACGCCAATAGGAGCTTTTCAATTGACGTCAATGGGTGAGAT	420
OY	421	TTACCGTAACTGCCCCACCTTGCGAGTACATCAAGTATCAATATGCCAAGTCGCGCCCT	480
Db	421	TTACCGTAACTGCCCCACCTTGCGAGTACATCAAGTATCAATATGCCAAGTCGCGCCCT	480
OY	481	ATTGACGCAATGACGATAAATGGCCCGCTGGGCAATTATGCCAGATACATGACCTTAAG	540
Db	481	ATTGACGCAATGACGATAAATGGCCCGCTGGGCAATTATGCCAGATACATGACCTTAAG	540
OY	541	GACTTTCCTACTTGGCAGTACATCTACGTAATTAGTCATGCGTATTAATCCAGTATGATGCGG	600
Db	541	GACTTTCCTACTTGGCAGTACATCTACGTAATTAGTCATGCGTATTAATCCAGTATGATGCGG	600
OY	601	TTTTGGCAGTACATATATGGGCGTGGATAGCGGTTTGACTCAACGGGATTTTCCAACTTC	660
Db	601	TTTTGGCAGTACATATATGGGCGTGGATAGCGGTTTGACTCAACGGGATTTTCCAACTTC	660
OY	661	CACCCCATTTGACGTCATATGAGGAGTTGTTTTGGACCAAAATCAACGGGACCTTTCCAAA	720
Db	661	CACCCCATTTGACGTCATATGAGGAGTTGTTTTGGACCAAAATCAACGGGACCTTTCCAAA	720
OY	721	TGTCGTAATTAACCCCGCCCGCTTGACGGAATATGGCGGTAGCGGTGACGTTGAGGAGGTC	780
Db	721	TGTCGTAATTAACCCCGCCCGCTTGACGGAATATGGCGGTAGCGGTGACGTTGAGGAGGTC	780
OY	781	TATATAGCAGAGCTGTTTATGTAACCGTCAAGATGCGCTTGAGAGCGCCATCCACGCTGT	840
Db	781	TATATAGCAGAGCTGTTTATGTAACCGTCAAGATGCGCTTGAGAGCGCCATCCACGCTGT	840
OY	841	TTTAAACCTCCATPAGAGACACCGGACCGATCCAGCTCCCGCGCGGGGAACGATGCAATT	900
Db	841	TTTAAACCTCCATPAGAGACACCGGACCGATCCAGCTCCCGCGCGGGGAACGATGCAATT	900
OY	901	GGAACGCGGATTCGCCGTGCGACAGAGTACGTAATACGCGCTATATAGACTCTATAGGCAC	960
Db	901	GGAACGCGGATTCGCCGTGCGACAGAGTACGTAATACGCGCTATATAGACTCTATAGGCAC	960
OY	961	ACCCCTTTGGCTCTTATGATGCTATTAAGTGTTTTGGCTTGGGGCTTATACACCCCGCT	1020
Db	961	ACCCCTTTGGCTCTTATGATGCTATTAAGTGTTTTGGCTTGGGGCTTATACACCCCGCT	1020
OY	1021	TCCCTATAGCTATAGGTATATGTAATAGCTTAAGGCTTATAGGCGTGGGTATATGACATTAATT	1080
Db	1021	TCCCTATAGCTATAGGTATATGTAATAGCTTAAGGCTTATAGGCGTGGGTATATGACATTAATT	1080
OY	1081	GACCACTCCCTATATGGTATGAGATCTTTTCAATTAATCAATCAATGAGCTCTTTGGCC	1140
Db	1081	GACCACTCCCTATATGGTATGAGATCTTTTCAATTAATCAATCAATGAGCTCTTTGGCC	1140
OY	1141	ACAACTATCTGTAATGGCTATATATGCAATACCTGTCTCTTCAAGACCTGACACGAGACTCT	1200
Db	1141	ACAACTATCTGTAATGGCTATATATGCAATACCTGTCTCTTCAAGACCTGACACGAGACTCT	1200
OY	1201	GTAATTTTACAGAGATGGGCTCCCATTTATTTATTAACAATTCACATATACAAACGCGG	1260

Db	1201	GTATTTTACAGATGGGGTCCATTATATTATTAACAATTCACATPAPACAAACGGCG	1260
Qy	1261	TCCCCCGTGCCCGCAGTTTTTATTAACAATAGCGTGGGATCTCCAGCGGAATCTCGGGTA	1320
Db	1261	TCCCCCGTGCCCGCAGTTTTTATTAACAATAGCGTGGGATCTCCAGCGGAATCTCGGGTA	1320
Qy	1321	CGATTCCGAGACATGGGCTCTTCGCGGTAGCGGTGGGGCTTCCACATCCGAGCCTGTG	1380
Db	1321	CGATTCCGAGACATGGGCTCTTCGCGGTAGCGGTGGGGCTTCCACATCCGAGCCTGTG	1380
Qy	1381	CCCATGCTCCAGCGCATCATGTGCTCGGACGCTCTTGCTCCCAACATGAGGCCA	1440
Db	1381	CCCATGCTCCAGCGCATCATGTGCTCGGACGCTCTTGCTCCCAACATGAGGCCA	1440
Qy	1441	GACTTAGGCACAGACGATGCCACCAACGAGTGTGCCGACAAAGGCGGTGGCGGTAG	1500
Db	1441	GACTTAGGCACAGACGATGCCACCAACGAGTGTGCCGACAAAGGCGGTGGCGGTAG	1500
Qy	1501	GGTATGTGTGTAATAATAGACTCGGAGATCGGGCTCGCAACCGCTGACGACAGATGGAAGAC	1560
Db	1501	GGTATGTGTGTAATAATAGACTCGGAGATCGGGCTCGCAACCGCTGACGACAGATGGAAGAC	1560
Qy	1561	TTAAGGACAGCGGCGAGAAAGACGCGAGGACGCTGATGTTGTGTCTTGATTAAGATCAG	1620
Db	1561	TTAAGGACAGCGGCGAGAAAGACGCGAGGACGCTGATGTTGTGTCTTGATTAAGATCAG	1620
Qy	1621	AGGTAACTCCCGTTGCGGTCTGTAAACGGTGAAGGAGGACGTATGCTGAGACATACTCG	1680
Db	1621	AGGTAACTCCCGTTGCGGTCTGTAAACGGTGAAGGAGGACGTATGCTGAGACATACTCG	1680
Qy	1681	TTGCTGCGCGGCGGCGCACACAGACATATATGCTGACAGACTAACGAGACTGTTCTTTCCA	1740
Db	1681	TTGCTGCGCGGCGGCGCACACAGACATATATGCTGACAGACTAACGAGACTGTTCTTTCCA	1740
Qy	1741	TGGGTCTTTCTGACATCAAGTCCCTT	1767
Db	1741	TGGGTCTTTCTGACATCAAGTCCCTT	1767

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RESULT 2
US-09-886-942-21
; Sequence 21. Application US/09886942
; Patent No. US2002008108A1
; GENERAL INFORMATION:
; APPLICANT: PUNNONEN, JUHA
; WRIGHT, ANNE
; SEMONOV, ANDREY
; APPLICANT:
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
; FILE REFERENCE: 02-031910US
; CURRENT APPLICATION NUMBER: US/09/886,942
; CURRENT FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/213,829
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 1767
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Consensus
; OTHER INFORMATION: sequence
; US-09-886-942-21

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Query	1	ATATGAGGCTATATCGCCGATAGAGGCGACATCAAGCCGCGACATCGGCATATGATATTCG	60
Best local Similarity	98.6%	Score 1741.4	DB 9
Matches 1751; Conservative	0	Mismatches 16	Indels 0
Gaps	0		
Db	1	ATATGAGGCTATATCGCCGATAGAGGCGACATCAAGCTTGGCGACATCGCATATTCG	60

QY	61	ATCTATACGTTGTAATCAATATTGGCAATTAGCAATATTTATTCATTGGTTATATATAGCATAT	120
QY	121	ATCAATATTGGCTATTGGCCATTGCATACGTTGTATCCGATATATATATATATATGATCATTTAT	180
Db	61	ATCTATACGTTGTAATCAATATTGGCAATTAGCAATATTTATTCATTGGTTATATATAGCATAT	120
QY	121	ATCAATATTGGCTATTGGCCATTGCATACGTTGTATCCGATATATATATATATATGATCATTTAT	180
Db	121	ATCAATATTGGCTATTGGCCATTGCATACGTTGTATCCGATATATATATATATATGATCATTTAT	180
QY	181	ATTGGCCCAATGTCATATATGACCGGCATGTGACATTTGATTTATGACTATGATTTATATG	240
QY	181	ATTGGCCCAATGTCATATATGACCGGCATGTGACATTTGATTTATGACTATGATTTATATG	240
Db	181	ATTGGCCCAATGTCATATATGACCGGCATGTGACATTTGATTTATGACTATGATTTATATG	240
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QY	241	TAAATCAATTAACGGGGTCATTAGTTCATATAGCCCATATATGAGATTCGCGCTTACATAACTT	300
Db	241	TAAATCAATTAACGGGGTCATTAGTTCATATAGCCCATATATGAGATTCGCGCTTACATAACTT	300
QY	301	ACGGTAATATGAGCCCGCTGCTGACCGCCCAACGACCCCGCCCATTTGACGTCATATATG	360
QY	301	ACGGTAATATGAGCCCGCTGCTGACCGCCCAACGACCCCGCCCATTTGACGTCATATATG	360
Db	301	ACGGTAATATGAGCCCGCTGCTGACCGCCCAACGACCCCGCCCATTTGACGTCATATATG	360
QY	361	ACGTAATGTCCTCATATATGACCGCAATATAGGACCTTCCATATGACGTCATATATGAGGAGAT	420
QY	361	ACGTAATGTCCTCATATATGACCGCAATATAGGACCTTCCATATGACGTCATATATGAGGAGAT	420
Db	361	ACGTAATGTCCTCATATATGACCGCAATATAGGACCTTCCATATGACGTCATATATGAGGAGAT	420
QY	421	TTACGGTAAACCTGCCACTTGGCAGTACATCAAGTGTATCATATGCAATGCAAGTCGCCCCCT	480
QY	421	TTACGGTAAACCTGCCACTTGGCAGTACATCAAGTGTATCATATGCAATGCAAGTCGCCCCCT	480
Db	421	TTACGGTAAACCTGCCACTTGGCAGTACATCAAGTGTATCATATGCAATGCAAGTCGCCCCCT	480
QY	481	ATTGACGTCATAGAGGATTAATGAGCCCGCTGCGATTTATGCCAGTACATGACCTTATACG	540
QY	481	ATTGACGTCATAGAGGATTAATGAGCCCGCTGCGATTTATGCCAGTACATGACCTTATATCG	540
Db	481	ATTGACGTCATAGAGGATTAATGAGCCCGCTGCGATTTATGCCAGTACATGACCTTATATCG	540
QY	541	GACTTTCCTACTTGGCAGTACATCTACGTAATATGATCGTATATACATGAGTATGAGG	600
QY	541	GACTTTCCTACTTGGCAGTACATCTACGTAATATGATCGTATATACATGAGTATGAGG	600
Db	541	GACTTTCCTACTTGGCAGTACATCTACGTAATATGATCGTATATACATGAGTATGAGG	600
QY	601	TTTTGGCAGTACATCAATGAGCGGTGATATGCGGTTTGACTACGAGGATTTTCCAAATCTC	660
QY	601	TTTTGGCAGTACATCAATGAGCGGTGATATGCGGTTTGACTACGAGGATTTTCCAAATCTC	660
Db	601	TTTTGGCAGTACATCAATGAGCGGTGATATGCGGTTTGACTACGAGGATTTTCCAAATCTC	660
QY	661	CACCCCATTTGACGTCATATGAGGAGCTTGTATTTGGACCCAAATATCAACGGGACCTTCCAAA	720
QY	661	CACCCCATTTGACGTCATATGAGGAGCTTGTATTTGGACCCAAATATCAACGGGACCTTCCAAA	720
Db	661	CACCCCATTTGACGTCATATGAGGAGCTTGTATTTGGACCCAAATATCAACGGGACCTTCCAAA	720
QY	721	TGTGCTAATTAACCCCGCCCGCTTGAACGCAATGAGCGGTGATATGCGGTGAGGAGGTC	780
QY	721	TGTGCTAATTAACCCCGCCCGCTTGAACGCAATGAGCGGTGATATGCGGTGAGGAGGTC	780
Db	721	TGTGCTAATTAACCCCGCCCGCTTGAACGCAATGAGCGGTGATATGCGGTGAGGAGGTC	780
QY	781	TATATTAACCAAGCTCCGTTTATGTAACCGTCAGATGCGCTGAGAACGCCATTCACGCTGT	840
QY	781	TATATTAACCAAGCTCCGTTTATGTAACCGTCAGATGCGCTGAGAACGCCATTCACGCTGT	840
Db	781	TATATTAACCAAGCTCCGTTTATGTAACCGTCAGATGCGCTGAGAACGCCATTCACGCTGT	840
QY	841	TTTGAACCTCCATAGAAAGACACCGGAGCCGATCCACCTCCGCGCGGGAACGCTGCAATT	900
QY	841	TTTGAACCTCCATAGAAAGACACCGGAGCCGATCCACCTCCGCGCGGGAACGCTGCAATT	900
Db	841	TTTGAACCTCCATAGAAAGACACCGGAGCCGATCCACCTCCGCGCGGGAACGCTGCAATT	900
QY	901	GGAACGCGGAGATTTCCCGCTGCAAGATGACGTAAGTACCGCCTATATAGCTTATATGAGCAC	960
QY	901	GGAACGCGGAGATTTCCCGCTGCAAGATGACGTAAGTACCGCCTATATAGCTTATATGAGCAC	960
Db	901	GGAACGCGGAGATTTCCCGCTGCAAGATGACGTAAGTACCGCCTATATAGCTTATATGAGCAC	960
QY	961	ACCCCTTTGAGCTTATATGATGATCTATGTTTGGCTTGGGGGCTATATACACCCCGCT	1020
QY	961	ACCCCTTTGAGCTTATATGATGATCTATGTTTGGCTTGGGGGCTATATATACACCCCGCT	1020
Db	961	ACCCCTTTGAGCTTATATGATGATCTATGTTTGGCTTGGGGGCTATATATACACCCCGCT	1020
QY	1021	TCCTTATGCTATATGATGATGATATGCTTAAAGCTATATAGCGGTGAGTTTATATGACATTAAT	1080
QY	1021	TCCTTATGCTATATGATGATGATATGCTTAAAGCTATATAGCGGTGAGTTTATATGACATTAAT	1080
Db	1021	TCCTTATGCTATATGATGATGATATGCTTAAAGCTATATAGCGGTGAGTTTATATGACATTAAT	1080
QY	1081	GACACATCCCTATATGATGATGATATCTTCCATTAATATCAATATCAATCAATCAATGAGCTTTGGCC	1140
QY	1081	GACACATCCCTATATGATGATGATATCTTCCATTAATATCAATATCAATCAATCAATGAGCTTTGGCC	1140
Db	1081	GACACATCCCTATATGATGATGATATCTTCCATTAATATCAATATCAATCAATCAATGAGCTTTGGCC	1140

QY 1141 ACAATATCTCTATTGGGCTAATGCAATACCTGTCTTCAAGAGCTGACACGGACT
 Db 1141 ACAATATCTCTATTGGGCTAATGCAATACCTGTCTTCAAGAGCTGACACGGACT
 QY 1201 GTAATTTTACAGAGATGGGGTCCCATTTATTTAATAATTCATATATACAAACACCGCG
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 QY 1261 TCCCCCGTGGCCCGAGTTTATTAATAACAATACGGTGGATCTCCACGGCAATCTGGGGTA
 Db 1261 TCCCCCGTGGCCCGAGTTTATTAATAACAATACGGTGGATCTCCACGGCAATCTGGGGTA
 QY 1321 CGTGTTCGGAACATAGGAGCTCTTCTCCGGTAGCGGATGGGGCTTCCACATCCGAGCCCTGGT
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 QY 1381 CCACAGCCTCCAGAGCATCTATGATGCTCGGAGACTCTTGTCTCCACAGATGAGGGCCA
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 QY 1441 GACTTAGGACAGACAGATGCCCCACCAACAGATGTGCGGACAGGCGCGGGGTG
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 QY 1501 GGTATGTGTCTGAATAATAGCTCGGAGATCGGGCTCGACCGCTGACGAGATGGAAGAC
 Db 1501 GGTATGTGTCTGAATAATAGCTCGGAGATCGGGCTCGACCGCTGACGAGATGGAAGAC
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 Db 1621 AGGTAACTCCCGTTCGCGTGTCTGTTAACGTGTGAGGGAGAGTGTGATCTGAGCAGTAAGTGG
 QY 1681 TTGCTGCCCGCGCGGCCACCAAGACATAATAGCTGACAGACTGACGGAAGCTGTTCTTTCCA
 Db 1681 TTGCTGCCCGCGCGGCCACCAAGACATAATAGCTGACAGACTGACGGAAGCTGTTCTTTCCA
 QY 1741 TGGGCTTTTCTGACATCAACCGTCTT 1767
 Db 1741 TGGGCTTTTCTGACATCAACCGTCTT 1767
 RESULT 3
 US-09-996-128A-1
 : Sequence 1, Application US/09996128A
 : Patent No. US20020150589A1
 : GENERAL INFORMATION:
 : APPLICANT: Houghton, Alan
 : APPLICANT: Bergman, Phillip
 : APPLICANT: Wojcik, Jed
 : TITLE OF INVENTION: Compositions for treatment of Melanoma and Methods of Using Same
 : FILE REFERENCE: MX.B-026-3
 : CURRENT APPLICATION NUMBER: US/09/996,128A
 : CURRENT FILING DATE: 2001-11-27
 : PRIOR APPLICATION NUMBER: US 09/627,694
 : PRIOR FILING DATE: 2000-07-28
 : PRIOR APPLICATION NUMBER: US 09/308,697
 : PRIOR FILING DATE: 1999-05-21
 : PRIOR APPLICATION NUMBER: PCT/US97/22669
 : PRIOR FILING DATE: 1997-12-10
 : PRIOR APPLICATION NUMBER: US 60/036,419
 : PRIOR FILING DATE: 1997-02-18
 : PRIOR APPLICATION NUMBER: US 60/032,535
 : PRIOR FILING DATE: 1996-12-10
 : PRIOR APPLICATION NUMBER: US 60/180,651
 : PRIOR FILING DATE: 2000-01-26
 : NUMBER OF SEQ ID NOS: 2
 : SOFTWARE: PatentIn version 3.0
 : SEQ ID NO 1
 : LENGTH: 6408

no support

TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: (1..1)
 OTHER INFORMATION: vector containing human tyrosinase
 US-09-996-128A-1

Query Match 98.3%; Score 1737.8; DB 10; Length 6408;
 Best Local Similarity 99.0%; Pred. No. 0;
 Matches 1748; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

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 2642 ATATGAGCTATATCCCGCATAGAGCGCATACAGCTGCGCATGCGCATATG 2701
 61 ATCTATACATTTGATGATGATGATGATGATGATGATGATGATGATGATG 120
 2702 ATCTATACATTTGATGATGATGATGATGATGATGATGATGATGATGATG 2761
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 2822 ATGCGCTCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2881
 241 TAATCAATATTTGATGATGATGATGATGATGATGATGATGATGATGATG 300
 2882 TAATCAATATTTGATGATGATGATGATGATGATGATGATGATGATGATG 2941
 301 ACGGTAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
 2942 ACGGTAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 3001
 361 ACGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
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 3182 GACTTCT 3241
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 901 GGAAGCGGATTTCCCGCATAGAGCGCATACAGCCGATACGCTATATAGGAC 960

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 3602 ACCCTTTGGCTCTTATGACATGATGATGATGATGATGATGATGATGATGAT 3661
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 3662 TCCCTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3721
 1081 GACCACTCCCTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
 3722 GACCACTCCCTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3781
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 3782 ACAATATCTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3841
 1201 GATATTTTACAGATGATGATGATGATGATGATGATGATGATGATGATGAT 1260
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 3902 TCCCTGTCCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 3961
 1321 CGTGTTCGGAATATGATGATGATGATGATGATGATGATGATGATGATGAT 1380
 3962 CGTGTTCGGAATATGATGATGATGATGATGATGATGATGATGATGATGAT 4021
 1381 CCCATGCTCCGATGATGATGATGATGATGATGATGATGATGATGATGAT 1440
 4022 CCCATGCTCCGATGATGATGATGATGATGATGATGATGATGATGATGAT 4081
 1441 GACTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1500
 4082 GACTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 4141
 1501 GGTATGTCCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1560
 4142 GGTATGTCCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 4201
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 1621 AGGTAACTCCCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1680
 4262 AGGTAACTCCCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 4321
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 4322 TTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 4381
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 4382 TGGGTCTTTTCTGAGTCAACCGTCC 4406

RESULT 4
 US-09-996-128A-2
 ; Sequence 2, Application US/09996128A
 ; Patent No. US20020150589A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Houghton, Alan
 ; APPLICANT: Bergman, Phillip
 ; APPLICANT: Molchok, Jedd
 ; TITLE OF INVENTION: Compositions for treatment of Melanoma and Methods of Using Same
 ; FILE REFERENCE: MSK-P-026-3
 ; CURRENT APPLICATION NUMBER: US/09/996,128A
 ; CURRENT FILING DATE: 2001-11-27
 ; PRIOR APPLICATION NUMBER: US 09/627,694

;; PRIOR FILING DATE: 2000-07-28
;; PRIOR APPLICATION NUMBER: US 09/308,697
;; PRIOR FILING DATE: 1999-05-21
;; PRIOR APPLICATION NUMBER: PCT/US97/22669
;; PRIOR FILING DATE: 1997-12-10
;; PRIOR APPLICATION NUMBER: US 60/036,419
;; PRIOR FILING DATE: 1997-02-18
;; PRIOR APPLICATION NUMBER: US 60/032,535
;; PRIOR FILING DATE: 1996-12-10
;; PRIOR APPLICATION NUMBER: US 60/180,651
;; PRIOR FILING DATE: 2000-01-26
;; NUMBER OF SEQ ID NOS: 2
;; SOFTWARE: PatentIn version 3.0
;; SEQ ID NO: 2
;; LENGTH: 6485
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: vector containing murine tyrosinase
US-09-996-128A-2

Query Match 98.3%; Score 1737.8; DB 10; Length 6485;
Best Local Similarity 99.0%; Pired. No. 0;
Matches 1748; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1 ATATGAGCTATATTCGCCGATAGAGCGCATCAAGCCGCGACATGGCCATGTCATATG 60
DB 2642 ATATGAGCTATATTCGCCGATAGAGCGCATCAAGCCGCGACATGGCCATGTCATATG 2701
QY 61 ATCTATACATTTGATCAATATTTGGCAATTAGCATATTTATTTATTTATATAGATTA 120
DB 2702 ATCTATACATTTGATCAATATTTGGCAATTAGCATATTTATTTATTTATATAGATTA 2761
QY 121 ATCAATATTTGGCTATTTGGCCATTCATAGCTGTATTCGTATATATATATATATTTAT 180
DB 2762 ATCAATATTTGGCTATTTGGCCATTCATAGCTGTATTCGTATATATATATATATTTAT 2821
QY 181 ATTTGGCCATTCATATATAGAGCGCATGTCATTTGATTTATTTATTTATTTATTTAT 240
DB 2822 ATTTGGCTATTCATATATAGAGCGCATGTCATTTGATTTATTTATTTATTTATTTAT 2881
QY 241 TAATCAATATTCGAGGCTATTTAGTTCAATAGCCATATATATATATATATATATTTAT 300
DB 2882 TAATCAATATTCGAGGCTATTTAGTTCAATAGCCATATATATATATATATATATTTAT 2941
QY 301 ACGGTAAATGCGCGCTGCTGACGCGCCCAACGAGCCCGCCCATTTGACGTCAATATATG 360
DB 2942 ACGGTAAATGCGCGCTGCTGACGCGCCCAACGAGCCCGCCCATTTGACGTCAATATATG 3001
QY 361 ACGTATATTTCCCATATATAGCCATATATATATATATATATATATATATATATTTAT 420
DB 3002 ACGTATATTTCCCATATATAGCCATATATATATATATATATATATATATATATTTAT 3061
QY 421 TTACGGTAAATTCGCGCATTTGGAGTATCATGATCATATATATATATATATATATTTAT 480
DB 3062 TTACGGTAAATTCGCGCATTTGGAGTATCATGATCATATATATATATATATATATTTAT 3121
QY 481 ATTGAGCTCAATGAGGTAAATGCGCGCTGCGCATTTATGCGCATATATATATATATTTAT 540
DB 3122 ATTGAGCTCAATGAGGTAAATGCGCGCTGCGCATTTATGCGCATATATATATATTTAT 3181
QY 541 GACTTTCTCTATTTGGAGTATCATATATATATATATATATATATATATATATTTAT 600
DB 3182 GACTTTCTCTATTTGGAGTATCATATATATATATATATATATATATATATATTTAT 3241
QY 601 TTTTGGAGTATCATTTAT 660
DB 3242 TTTTGGAGTATCATTTAT 3301
QY 661 CACCCATTGACGTCAATGAGAGTTTGTTTTGGACCCAAATCAACGGGACTTTCCAAA 720
DB 720 CACCCATTGACGTCAATGAGAGTTTGTTTTGGACCCAAATCAACGGGACTTTCCAAA 720

DB 3302 CACCCATTGACGTCAATGAGAGTTTGTTTTGGACCCAAATCAACGGGACTTTCCAAA 3361
QY 721 TGTCTTAATTAACCCCGCCCGCTTGAAGCAATGCGCGTATGCGTATGAGAGTTC 780
DB 3362 TGTCTTAATTAACCCCGCCCGCTTGAAGCAATGCGCGTATGCGTATGAGAGTTC 3421
QY 781 TATATAGAGAGTCTGTTTATGTAACCGTCAATGCGCTTGAAGAGCCATTCACGCTGT 840
DB 3422 TATATAGAGAGTCTGTTTATGTAACCGTCAATGCGCTTGAAGAGCCATTCACGCTGT 3481
QY 841 TTTTGAACCTTCAATGAAGACACCGGACCGATTCACGCTTGAAGAGCCGGAACGGTTC 900
DB 3482 TTTTGAACCTTCAATGAAGACACCGGACCGATTCACGCTTGAAGAGCCGGAACGGTTC 3541
QY 901 GGAACGCGGATTCGCCGCTGCAAGAGTACGTAATGACCGCTTATATAGAGCAC 960
DB 3542 GGAACGCGGATTCGCCGCTGCAAGAGTACGTAATGACCGCTTATATAGAGCAC 3601
QY 961 ACCCTTTTGGCTTTATATGATGCTATATCTGTTTGGCTTGGGACCTATACACCCCGCT 1020
DB 3602 ACCCTTTTGGCTTTATATGATGCTATATCTGTTTGGCTTGGGACCTATACACCCCGCT 3661
QY 1021 TCTTATATGATATAGTATGATATAGCTTATAGCTTATAGCGGTATTTATGACATTTAT 1080
DB 3662 TCTTATATGATATAGTATGATATAGCTTATAGCTTATAGCGGTATTTATGACATTTAT 3721
QY 1081 GACCACTCCCTTATTTGGTATGAGATCTTCCATTAATCAATCAATATATATATATTTAT 1140
DB 3722 GACCACTCCCTTATTTGGTATGAGATCTTCCATTAATCAATCAATATATATATTTAT 3781
QY 1141 ACAACTATCTTATTTGGCTATATATGCAATATCTGTCCTTCAAGAGCTGACACGAGCTCT 1200
DB 3782 ACAACTATCTTATTTGGCTATATATGCAATATCTGTCCTTCAAGAGCTGACACGAGCTCT 3841
QY 1201 GATTTTATACAGATGAGGCTCCATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 1260
DB 3842 GATTTTATACAGATGAGGCTCCATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 3901
QY 1261 TCCCGCGTCCGCGAGTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 1320
DB 3902 TCCCGCGTCCGCGAGTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 3961
QY 1321 CGTGTTCGCGACATAGGCTCTTCTCCGATAGCGGTGAGGCTTTCACATCCGAGCCCTGCT 1380
DB 3962 CGTGTTCGCGACATAGGCTCTTCTCCGATAGCGGTGAGGCTTTCACATCCGAGCCCTGCT 4021
QY 1381 CCGATGCTCTCAGGACATCATGCTGCTGCGAGCTCTCTGCTCCCAACAGTGAAGGCTCA 1440
DB 4022 CCGATGCTCTCAGGACATCATGCTGCTGCGAGCTCTCTGCTCCCAACAGTGAAGGCTCA 4081
QY 1441 GACTTATGAGACAGCAAGATGCCACACACAGATGTCGCGACAAAGGCGGTGGGATG 1500
DB 4082 GACTTATGAGACAGCAAGATGCCACACACAGATGTCGCGACAAAGGCGGTGGGATG 4141
QY 1501 GGTATGTGCTGAAAATAGTATGAGATCGGAGCTCGACCCGCTGACGAGATGGAAGAC 1560
DB 4142 GGTATGTGCTGAAAATAGTATGAGATCGGAGCTCGACCCGCTGACGAGATGGAAGAC 4201
QY 1561 TTAAGGACGCGACAGAAAGACGACAGGAGCTGAGTTGTGTCTGATTAAGAGTCA 1620
DB 4202 TTAAGGACGCGACAGAAAGACGACAGGAGCTGAGTTGTGTCTGATTAAGAGTCA 4261
QY 1621 AGGTAACTCCGTTGCGGTGCTTAAAGGTGAGGAGCGATATGCTGAGAGATCTG 1680
DB 4262 AGGTAACTCCGTTGCGGTGCTTAAAGGTGAGGAGCGATATGCTGAGAGATCTG 4321
QY 1681 TTTGTCGCGCGCGCGCACACAGATTAATAGCTGACAGACTAAGGAGCTGCTTTTCA 1740
DB 4322 TTTGTCGCGCGCGCGCACACAGATTAATAGCTGACAGACTAAGGAGCTGCTTTTCA 4381
QY 1741 TGGGTCTTTTCTGACATCACGCTCC 1765
DB 4382 TGGGTCTTTTCTGACATCACGCTCC 4406

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RESULT 5
US-09-886-942-5
; Sequence 5: Application US/09886942
; Patent No. US20020081708A1
; GENERAL INFORMATION:
; APPLICANT: PUNNONEN, JUHA
; WRIGHT, ANNE
; SEMONOV, ANDREY
; APPLICANT:
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
; FILE REFERENCE: 02-031910US
; CURRENT APPLICATION NUMBER: US/09/886,942
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/213,829
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1767
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Oligonucleotide
US-09-886-942-5

Query Match      97.8%; Score 1728.6; DB 9; Length 1767;
Best Local Similarity 98.6%; Pred. No. 0;
Matches 1743; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1 ATATGAGCTATATCGCGATAGAGCGAGATCAAGCCGCGACATGCGCAATGATATCG 60
DB 1 ATATGAGCTATATCGCGATAGAGCGAGATCAAGCCGCGACATGCGCAATGATATCG 60
QY 61 ATCTATACATTGAATCAATATTTGGCAATTAGCCATATTTATTTGTTATATAGCTAA 120
DB 61 ATCTATACATTGAATCAATATTTGGCCATTAGCCATATTTATTTGTTATATAGCTAA 120
QY 121 ATCAATTTGGCTATTTGGCATTTGCAATGCTGTATCCGATATATATATATATATAT 180
DB 121 ATCAATTTGGCTATTTGGCCATTTGCAATGCTGTATCCGATATATATATATATATAT 180
QY 181 ATGGCCCATGTCATATATAGCCGCAATGTTGACATTTGATTTGATTTATATAG 240
DB 181 ATGGCCCATGTCATATATAGCCGCAATGTTGATTTGATTTGATTTATATAG 240
QY 241 TAATCAATTAAGGGGCTATTAGTTCAATAGCCCATATATATGAGTTCCGCTTACATA 300
DB 241 TAATCAATTAAGGGGCTATTAGTTCAATAGCCCATATATATGAGTTCCGCTTACATA 300
QY 301 ACGGTAAATGGCCGCTGCTGACCGCCCAAGACCCCGCCCATTTGAGTCAATATAG 360
DB 301 ACGGTAAATGGCCGCTGCTGACCGCCCAAGACCCCGCCCATTTGAGTCAATATAG 360
QY 361 ACGTATTTCCCATAGTATAGCCCAATAGGACCTTTCCATTTGACGTCAATGGTGAAT 420
DB 361 ACGTATTTCCCATAGTATAGCCCAATAGGACCTTTCCATTTGACGTCAATGGTGAAT 420
QY 421 TTAACGTAACCTGCGCATTTGGAGTATCAATCAAGTATATATATGCAATCCGCCCCCT 480
DB 421 TTAACGTAACCTGCGCATTTGGAGTATCAATCAAGTATATATATGCAATCCGCCCCCT 480
QY 481 ATTGACGTCATAGCGGTAAATGGCCGCTGCTGATTTATGCGCAATAGACCTTACGG 540
DB 481 ATTGACGTCATAGCGGTAAATGGCCGCTGCTGATTTATGCGCAATAGACCTTACGG 540
QY 541 GACTTTCTACTTGGAGTACATCTAGCTATTTAGTCAATGCTATTTACATGATGATCGG 600
DB 541 GACTTTCTACTTGGAGTACATCTAGCTATTTAGTCAATGCTATTTACATGATGATCGG 600
QY 601 TTTTGGAGTACATCAATGGGCGTGTATAGCGGTTTGTACTACAGGGGATTTCCAGTCTC 660
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DB 601 TTTTGGAGTACATCAATGGGCGTGTATAGCGGTTTGTACTACAGGGGATTTCCAGTCTC 660
QY 661 CACCCCATTTGAGTCATGAGGATTTGTTGGACCAAAATCAACGGGACTTTCCAAA 720
DB 661 CACCCCATTTGAGTCATGAGGATTTGTTGGACCAAAATCAACGGGACTTTCCAAA 720
QY 721 TGTGTATATATACCCCGCCGCTTGGACCAATAGGCGGTAGCGGTACGTGGAGGTC 780
DB 721 TGTGTATATATACCCCGCCGCTTGGACCAATAGGCGGTAGCGGTACGTGGAGGTC 780
QY 781 TATATAGAGAGCTGCTTATAGAACCTGATTCGCTGAGAGACCATCCAGCTCT 840
DB 781 TATATAGAGAGCTGCTTATAGAACCTGATTCGCTGAGAGACCATCCAGCTCT 840
QY 841 TTTGACCTCCATAGAGACACCGGGACCATCCAGCTCCGCGCCGGGACGGTCAAT 900
DB 841 TTTGACCTCCATAGAGACACCGGGACCATCCAGCTCCGCGCCGGGACGGTCAAT 900
QY 901 GGAACGGGATTTCCCGTCCAAAGAGTGAAGTATCCGCTATATAGCTATATAGCA 960
DB 901 GGAACGGGATTTCCCGTCCAAAGAGTGAAGTATCCGCTATATAGCTATATAGCA 960
QY 961 ACCCTTTGGCTTTATGATGCTATACCTGTTTGGCTTGGGCTATACCCCGCT 1020
DB 961 ACCCTTTGGCTTTATGATGCTATACCTGTTTGGCTTGGGCTATACCCCGCT 1020
QY 1021 TCCCTATAGCTATAGGATGATATAGCTTATAGCTTATAGCTTATAGCTTATAT 1080
DB 1021 TCCCTATAGCTATAGGATGATATAGCTTATAGCTTATAGCTTATATATAT 1080
QY 1081 GACCACTCCCTATTTGGTATAGGATATCTTCAATTAATCAATTAATCAATGCT 1140
DB 1081 GACCACTCCCTATTTGGTATAGGATATCTTCAATTAATCAATTAATCAATGCT 1140
QY 1141 ACAACATATCTATTTGGCTATATATGCAATATCTGCTTCCAGAGCTGACAGAGCT 1200
DB 1141 ACAACATATCTATTTGGCTATATATGCAATATCTGCTTCCAGAGCTGACAGAGCT 1200
QY 1201 GATATTTTACAGATAGGAGTCCATTTATTTTCAATTAATCAATTAATCAATGCT 1260
DB 1201 GATATTTTACAGATAGGAGTCCATTTATTTTCAATTAATCAATTAATCAATGCT 1260
QY 1261 TCCCCCGTCCGAGATTTTATTAACATATGCTGAGATCTCCAGCGAATCTGGGTA 1320
DB 1261 TCCCCCGTCCGAGATTTTATTAACATATGCTGAGATCTCCAGCGAATCTGGGTA 1320
QY 1321 CGTGTCCGGAATAGGAGCTCTTCCGCTGAGGCTGCTTCCATATCCGAGCTTGGT 1380
DB 1321 CGTGTCCGGAATAGGAGCTCTTCCGCTGAGGCTGCTTCCATATCCGAGCTTGGT 1380
QY 1381 CCATATCTCCAGAGCTATGATGCTGCTGAGAGCTCTTCCATATCCGAGCTTGGT 1440
DB 1381 CCATATCTCCAGAGCTATGATGCTGCTGAGAGCTCTTCCATATCCGAGCTTGGT 1440
QY 1441 GACTTATGACAGCAATATGCTGAGAGCTGAGAGCTGAGAGCTGAGAGCTGAGAG 1500
DB 1441 GACTTATGACAGCAATATGCTGAGAGCTGAGAGCTGAGAGCTGAGAGCTGAGAG 1500
QY 1501 GGTATGCTGTAATATGAGCTGAGAGCTGAGAGCTGAGAGCTGAGAGCTGAGAG 1560
DB 1501 GGTATGCTGTAATATGAGCTGAGAGCTGAGAGCTGAGAGCTGAGAGCTGAGAG 1560
QY 1561 TTAAGGACGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1620
DB 1561 TTAAGGACGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1620
QY 1621 AGGTAACTCCGTTGGGCTGCTTAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 1680
DB 1621 AGGTAACTCCGTTGGGCTGCTTAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 1680
QY 1681 TTTGCTGCGGCGGCGCACAGATATATAGCTGACAGCTTAAAGAGAGAGAGAGAG 1740
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Db 1681 TTGCTGCGCGCGCGCCACCAAGATATAGCTGACAGACTAGAGACTGTTCTTTCCA 1740
Qy 1741 TGGGTCTTTTCTGCACTGACCGTCTT 1767
Db 1741 TGGGTCTTTTCTGCACTGACCGTCTT 1767

RESULT 6

US-09-886-942-15
Sequence 15, Application US/09886942
Patent No. US20020081708A1
GENERAL INFORMATION:
APPLICANT: PUNNONEN, JUHA
WRIGHT, ANNE
SEMYONOV, ANDREY
APPLICANT:
TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
FILE REFERENCE: 02-031910US
CURRENT APPLICATION NUMBER: US/09/886, 942
CURRENT FILING DATE: 2001-06-21
PRIOR APPLICATION NUMBER: 60/213, 829
PRIOR FILING DATE: 2000-06-23
NUMBER OF SEQ ID NOS: 40
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 15
LENGTH: 1767
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-886-942-15

Query Match 97.8%; Score 1728.6; DB 9; Length 1767;
Best Local Similarity 98.6%; Pred. No. 0;
Matches 1743; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

Qy 1 ATATGAGCTATATCGCGATAGAGCGCATCAACCGCGACATGGCCAAATGATATCG 60
Db 1 ATATGAGCTATATCGCGATAGAGCGCATCAACCGCGACATGGCCAAATGATATCG 60
Qy 61 ATCTATACATGTAATCAATATATGGCAATTAAGCCAAATTAATCTTGGTTATATAGCATTA 120
Db 61 ATCTATACATGTAATCAATATATGGCAATTAAGCCAAATTAATCTTGGTTATATAGCATTA 120
Qy 121 ATCAATATGGCATATGGCATATGATGTAATCCGATATATATATATATATATATAT 180
Db 121 ATCAATATGGCATATGGCATATGATGTAATCCGATATATATATATATATATATATAT 180
Qy 181 ATGGCCCATATGTCATATGACCGCATATGATGATGATATATATATATATATATAT 240
Db 181 ATGGCCCATATGTCATATGACCGCATATGATGATGATATATATATATATATATATAT 240
Qy 241 TATCAATTAACGGGCTATAGTTTCAATAGCCATATATAGAGTTCCGCTTACATACTT 300
Db 241 TATCAATTAACGGGCTATAGTTTCAATAGCCATATATAGAGTTCCGCTTACATACTT 300
Qy 301 ACCGTAATATGCGCGCTGCTGACGCGCCCAACGACCGCCCGCCCATTTGACATATAT 360
Db 301 ACCGTAATATGCGCGCTGCTGACGCGCCCAACGACCGCCCGCCCATTTGACATATAT 360
Qy 361 ACCTATATGTCATATAGAGCAATAGGACTTTTCATTTGAGCTCAATGGGTGAGTAT 420
Db 361 ACCTATATGTCATATAGAGCAATAGGACTTTTCATTTGAGCTCAATGGGTGAGTAT 420
Qy 421 TTAACGTAATATGCGCGCTGCTGACGCGCCCAACGACCGCCCGCCCATTTGACATAT 480
Db 421 TTAACGTAATATGCGCGCTGCTGACGCGCCCAACGACCGCCCGCCCATTTGACATAT 480
Qy 481 ATTGAGTCAATGACGTAATATGCGCGCTGCTGACGCGCCCAACGACCGCCCGCCCAT 540
Db 481 ATTGAGTCAATGACGTAATATGCGCGCTGCTGACGCGCCCAACGACCGCCCGCCCAT 540

Qy 541 GACTTCTCTACTTGGCAGTACATCTACGATTAATGATATGCTATTAACCATGATGCGG 600
Db 541 GACTTCTCTACTTGGCAGTACATCTGCGATTAATGATATGCTATTAACCATGATGCGG 600
Qy 601 TTTTGGAGTACATCAATGGGCGTGGATAGCGGTTGACTCAACGCGGATTTTCAAGTCTC 660
Db 601 TTTTGGAGTACATCAATGGGCGTGGATAGCGGTTGACTCAACGCGGATTTTCAAGTCTC 660
Qy 661 CACCCCATTTGACGTCATATGAGAGTTTGTGTCACCAAAATCAACGCGGATTTTCAAAA 720
Db 661 CACCCCATTTGACGTCATATGAGAGTTTGTGTCACCAAAATCAACGCGGATTTTCAAAA 720
Qy 721 TGTGTAATATACCCCGCCCGTTGACGCAATATGGCGGTGAGCGGTGTAAGTGGAGTTC 780
Db 721 TGTGTAATATACCCCGCCCGTTGACGCAATATGGCGGTGAGCGGTGTAAGTGGAGTTC 780
Qy 781 TATATAGAGAGTCTGTTTATGTAACGCTGATTCGCTGGAGACGCTATCAGCTGT 840
Db 781 TATATAGAGAGTCTGTTTATGTAACGCTGATTCGCTGGAGACGCTATCAGCTGT 840
Qy 841 TTTGACCTTCATAGAAAGACACCGGAGCGATCCAGCTCCGCGCGGGAAAGTGCATT 900
Db 841 TTTGACCTTCATAGAAAGACACCGGAGCGATCCAGCTCCGCGCGGGAAAGTGCATT 900
Qy 901 GGAACGCGGATTCCTGCGCAAGAGTACGTAAGTACCGCTATATAGCTTATAGGAC 960
Db 901 GGAACGCGGATTCCTGCGCAAGAGTACGTAAGTACCGCTATATAGGAC 960
Qy 961 ACCCTTTGGCTTATATGATGCTATCTGTTTGGCTTGGGGCTATACACCCCGCT 1020
Db 961 ACCCTTTGGCTTATATGATGCTATCTGTTTGGCTTGGGGCTATACACCCCGCT 1020
Qy 1021 TCCCTATGCTATAGGATGATATAGCTTATAGCTTATAGCGGTATATGACATATAT 1080
Db 1021 TCCCTATGCTATAGGATGATATAGCTTATAGCTTATAGCGGTATATGACATATAT 1080
Qy 1081 GACCACTCCCTATGTTGTCAGCATATCTTCAATTAATCAATTAATCAATGATGCTT 1140
Db 1081 GACCACTCCCTATGTTGTCAGCATATCTTCAATTAATCAATTAATCAATGATGCTT 1140
Qy 1141 ACAATATCTTATGTTGCTATATGCAATATCTGCTTCAAGACATGACACGACTCT 1200
Db 1141 ACAATATCTTATGTTGCTATATGCAATATCTGCTTCAAGACATGACACGACTCT 1200
Qy 1201 GATATTTTACAGAGATGGGCTCCATTTATTTTCAAAATTAATCAATTAATCAATG 1260
Db 1201 GATATTTTACAGAGATGGGCTCCATTTATTTTCAAAATTAATCAATTAATCAATG 1260
Qy 1261 TCCCGCGTCCCGCAGTTTATTTTAAACATAGCGGTGATCTTCAACGCGAATCTGGGTA 1320
Db 1261 TCCCGCGTCCCGCAGTTTATTTTAAACATAGCGGTGATCTTCAACGCGAATCTGGGTA 1320
Qy 1321 CGTGTTCGGAATAGGCTCTTCTCCGTAAGCGGTGGGCTTCCATCTCGAGCCCTGGT 1380
Db 1321 CGTGTTCGGAATAGGCTCTTCTCCGTAAGCGGTGGGCTTCCATCTCGAGCCCTGGT 1380
Qy 1381 CCCATGCTCCGACGATCATATGCTGCGAGAGCTCTTCCCAAGTGGAGGCA 1440
Db 1381 CCCATGCTCCGACGATCATATGCTGCGAGAGCTCTTCCCAAGTGGAGGCA 1440
Qy 1441 GACTTATGAGCAGCAGATGACCCACCAACCAAGTGTGCGGACAAAGCGGTGGGTAG 1500
Db 1441 GACTTATGAGCAGCAGATGACCCACCAACCAAGTGTGCGGACAAAGCGGTGGGTAG 1500
Qy 1501 GGTATGTGTCTAATAATGAGCTCGAGATCGGCTGCAACGCTGACGCAATGGAAGC 1560
Db 1501 GGTATGTGTCTAATAATGAGCTCGGAGATCGGCTGCAACGCTGACGCAATGGAAGC 1560
Qy 1561 TTAAGCAGCGCAGAAAG 1620
Db 1561 TTAAGCAGCGCAGAAAG 1620
Qy 1621 AGTAATCTCCGTTGCGGTGCTGTTAACGCTGAGAGGAGAGTATCTGAGCAGTACTCG 1680

Db 1621 AGGTAATCCCGTTCGCGTGTCTTAAACGGTGAAGGGCAATGTAGTGTGACAGTACTCG 1680
Qy 1681 TTGTCGCGCGCGCGCCAGCAGACATATAGCTGACAGACTTAAGCACTGTCTTCCCA 1740
Db 1681 TTGTCGCGCGCGCGCCAGCAGACATATAGCTGACAGACTTAAGCACTGTCTTCCCA 1740
Qy 1741 TGGGTCCTTTTCTGCAGTACCGTCTT 1767
Db 1741 TGGGTCCTTTTCTGCAGTACCGTCTT 1767

RESULT 7

US-09-886-942-16
; Sequence 16, Application US/09886942
; Patent No. US20020081708A1
; GENERAL INFORMATION:
; APPLICANT: PUNNONEN, JUHA
; WRIGHT, ANNE
; SEMYONOV, ANDREY
; APPLICANT:
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
; FILE REFERENCE: 02-031910US
; CURRENT APPLICATION NUMBER: US/09/886,942
; CURRENT FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/213,829
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 16
; LENGTH: 1767
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-886-942-16

Query Match 97.7%; Score 1727; DB 9; Length 1767;
Best Local Similarity 98.6%; Pred. No. 0;
Matches 1742; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

Qy 1 ATATGAGGCTATATATGCGGATAGAGGCGACATCAAGCCGCGACATGGCCAAATGCATTCG 60
Db 1 ATATGAGGCTATATATGCGGATAGAGGCGACATCAAGCTGGGACATGGCCAAATGCATTCG 60
Qy 61 ATCTATCATTTGATGATCAATATTTGGCAATTTAGCCATATTTATTCATTTGTTATATAGCTAA 120
Db 61 ATCTATCATTTGATGATCAATATTTGGCAATTTAGCCATATTTAGCTATTTATATAGCTAA 120
Qy 121 ATCAATATTTGGCTATTTGGCCATTGCAATCGTTGATCTATATCATATATATATGATCATTTAT 180
Db 121 ATCAATATTTGGCTATTTGGCCATTGCAATCGTTGATCTATATCATATATATATGATCATTTAT 180
Qy 181 ATTGGCCCATGTCATATATGACCGCCATGTTGACATTTGATTTATGATTTATATAG 240
Db 181 ATTGGCCCATGTCATATATGACCGCCATGTTGACATTTGATTTATGATTTATATAG 240
Qy 241 TATATCATTTACGGGGCTATTAGTTCATAGCCCATATATGAGAGTTCGGGTTACATTAATT 300
Db 241 TATATCATTTACGGGGCTATTAGTTCATAGCCCATATATGAGAGTTCGGGTTACATTAATT 300
Qy 301 ACCGTAATATGAGCGGCTGAGTACGCGCCCAAGAGCCCGCCCATTTGAGAGTCAATATAG 360
Db 301 ACCGTAATATGAGCGGCTGAGTACGCGCCCAAGAGCCCGCCCATTTGAGAGTCAATATAG 360
Qy 361 ACCTATATTTCCATATAGTACGCAATATGAGACTTTTCCATTTGAGCTCATGAGTAT 420
Db 361 ACCTATATTTCCATATAGTACGCAATATGAGACTTTTCCATTTGAGCTCATGAGTAT 420
Qy 421 TTACGTAATATGAGCGGCTGAGTACGCAATATGAGACTTTTCCATTTGAGCTCATGAGTAT 480
Db 421 TTACGTAATATGAGCGGCTGAGTACGCAATATGAGACTTTTCCATTTGAGCTCATGAGTAT 480

Qy 481 ATTGAGCTCATATACCGGTAATATGAGCGGCGGCTGCGATTTATGCCAGTACATGACTTACGG 540
Db 481 ATTGAGCTCATATACCGGTAATATGAGCGGCGGCTGCGATTTATGCCAGTACATGACTTACGG 540
Qy 541 GACTTTCTTCACTTTGGAGTACATCTACGTTATATGATATGCTATTTTCAATGAGTACGG 600
Db 541 GACTTTCTTCACTTTGGAGTACATCTACGTTATATGATATGCTATTTTCAATGAGTACGG 600
Qy 601 TTTTGGCAGTACATCAATGAGCGTGTATAGCGGTTTGACTCAAGGGGATTTTCCAGTCTC 660
Db 601 TTTTGGCAGTACATCAATGAGCGTGTATAGCGGTTTGACTCAAGGGGATTTTCCAGTCTC 660
Qy 661 CACCCCATTTGAGCTCATATGAGGAGTTTGTGTCACCAAAATCAAGGAGACTTTTCCAAA 720
Db 661 CACCCCATTTGAGCTCATATGAGGAGTTTGTGTCACCAAAATCAAGGAGACTTTTCCAAA 720
Qy 721 TGTCTATATTAACCGGCGGCTTTGAGCAAAATGAGGCGGTATAGGCTTACGTTGAGGAGTTC 780
Db 721 TGTCTATATTAACCGGCGGCTTTGAGCAAAATGAGGCGGTATAGGCTTACGTTGAGGAGTTC 780
Qy 781 TATATAGCAGAGCTGTTAGTAAACGCTGAGATCGCTGAGAGAGCCATCCAGCTGT 840
Db 781 TATATAGCAGAGCTGTTAGTAAACGCTGAGATCGCTGAGAGAGCCATCCAGCTGT 840
Qy 841 TTGACCTTCATAGAGAGACACCGGAGCCGATCCAGCTTCGCGGCGGAGACGTTGCAATT 900
Db 841 TTGACCTTCATAGAGAGACACCGGAGCCGATCCAGCTTCGCGGCGGAGACGTTGCAATT 900
Qy 901 GGAACCGGAGTTCCCGTCCCAAGAGTGAATATAGTACCGCTATATAGCTATATAGGCAAC 960
Db 901 GGAACCGGAGTTCCCGTCCCAAGAGTGAATATAGTACCGCTATATAGCTATATAGGCAAC 960
Qy 961 ACCCTTGGCTTTATGATGCTATACGTTTGGCTTGGAGGCTATACACCCCGCT 1020
Db 961 ACCCTTGGCTTTATGATGCTATACGTTTGGCTTGGAGGCTATATACACCCCGCT 1020
Qy 1021 TCCCTTATGCTATATAGTATGATATAGCTTATAGCCATATAGCGTGTATTTGACATATAT 1080
Db 1021 TCCCTTATGCTATATAGTATGATATAGCTTATAGCCATATAGCTGTGTATTTGACATATAT 1080
Qy 1081 GACCACTCCCTATTTGGTATGACGATTTCTTCAATTAATCAATATGATGCTCTTTGGC 1140
Db 1081 GACCACTCCCTATTTGGTATGACGATTTCTTCAATTAATCAATATGATGCTCTTTGGC 1140
Qy 1141 ACAACTATCTATTTGGCTATATAGCAATATCTGCTTCAAGAGCTGACAGCGACTCT 1200
Db 1141 ACAACTATCTATTTGGCTATATAGCAATATCTGCTTCAAGAGCTGACAGCGACTCT 1200
Qy 1201 GTATTTTACAGGATGAGGCTCCATTTATTTTCAATTTCAATATCAATATCAACAAACGCGG 1260
Db 1201 GTATTTTACAGGATGAGGCTCCATTTATTTTCAATTTCAATATCAATATCAACAAACGCGG 1260
Qy 1261 TCCCGCGTCCCGGAGTTTATTAACATATGCGTGGAGTCTTCCAGCAAACTCGGGTA 1320
Db 1261 TCCCGCGTCCCGGAGTTTATTAACATATGCGTGGAGTCTTCCAGCAAACTCGGGTA 1320
Qy 1321 CGTGTTCGAGATAGGCTCTTCTCCGTAAGGAGGAGGCTTCCATCCGAGCCCTGGT 1380
Db 1321 CGTGTTCGAGATAGGCTCTTCTCCGTAAGGAGGAGGCTTCCATCCGAGCCCTGGT 1380
Qy 1381 CCCATGCTTCAGAGCACTCATGATGCTGCGAGCTCTTGTCCCAACAGTGAAGGCA 1440
Db 1381 CCCATGCTTCAGAGCACTCATGATGCTGCGAGCTCTTGTCCCAACAGTGAAGGCA 1440
Qy 1441 GACTTATGAGCAGCAACAAATGCGCACCAACAGTATGCGGACAAAGGCTGAGGCGGTAG 1500
Db 1441 GACTTATGAGCAGCAACAAATGCGCACCAACAGTATGCGGACAAAGGCTGAGGCGGTAG 1500
Qy 1501 GGTATGCTGTCTGAAAATGAGCTCGAGATCGGGCTTCGACCGCTGACGAGATGGAAGAC 1560
Db 1501 GGTATGCTGTCTGAAAATGAGCTCGAGATTTGGCTTCGACCGCTGACGAGATGGAAGAC 1560

QY 1501 GGATATGTCTGAAATATGAGCTCGAGATCGGGCTCGACCGCTGACGAGATGGAAGAC 1560
Db 1501 GGATATGTCTGAAATATGAGCTCGAGATCGGGCTCGACCGCTGACGAGATGGAAGAC 1560
QY 1561 TTAAAGGAGGCGGAGAAAGAACGACGACGAGCTGAGTTGTTGTTCTGATTAAGAGTCAG 1620
Db 1561 TTAAAGGAGGCGGAGAAAGAACGACGAGCTGAGTTGTTGTTCTGATTAAGAGTCAG 1620
QY 1621 AGGTAATCCCGTTCGCGTGTGTTAAGGAGGAGGAGTGTAGTCTGAGACGACTGCG 1680
Db 1621 AGGTAATCCCGTTCGCGTGTGTTAAGGAGGAGGAGTGTAGTCTGAGACGACTGCG 1680
QY 1681 TTGCTGCGGCGGCGGCGGAGACGACATATATAGCTGACAGACTGACGACTGCTTCCA 1740
Db 1681 TTGCTGCGGCGGCGGCGGAGACGACATATATAGCTGACAGACTGACGACTGCTTCCA 1740
QY 1741 TGGGTCTTTCTGACAGTACCGCTCTT 1767
Db 1741 TGGGTCTTTCTGACAGTACCGCTCTT 1767

RESULT 9

US-09-886-942-18
; Sequence 18, Application US/09886942
; Patent No. US20020081708A1
; GENERAL INFORMATION:
; APPLICANT: PUNNONEN, JUHA
; WRIGHT, ANNE
; SEMONOV, ANDREY
; APPLICANT:
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
; FILE REFERENCE: 02-031910US
; CURRENT APPLICATION NUMBER: US/09/886,942
; CURRENT FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/213,829
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 1767
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Oligonucleotide
US-09-886-942-18

Query Match 97.4%; Score 1720.6; DB 9; Length 1767;
Best local Similarity 98.4%; Pred. No. 0;
Matches 1738; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

QY 1 ATATGAGGCTATATCGCCGATAGAGGCGACATCAAGCCGCGACATGGCCAAATGATATCG 60
Db 1 ATATGAGGCTATATCGCCGATATAGGCGACATCAAGCTGGACATGGCCAAATGATATCG 60
QY 61 ATCATATCATTTGATCAATATTTGGCAATTTAGCCATATTAAGTATGTTATATAGCATTA 120
Db 61 ATCATATCATTTGATCAATATTTGGCAATTTAGCCATATTAAGTATGTTATATAGCATTA 120
QY 121 ATCAATATTTGGCAATTTAGCCATTTGATATGATATGATATATATATATATATATAT 180
Db 121 ATCAATATTTGGCAATTTAGCCATTTGATATGATATGATATATATATATATATATATAT 180
QY 181 ATTTGGCCATGTCATATATGACCGGCGATTTGACATTTATTTAGTATTTATATAG 240
Db 181 ATTTGGCCATGTCATATATGACCGGCGATTTGACATTTATTTAGTATTTATATAG 240
QY 241 TAATCAATTAAGGGGATATGATATGACCGCAATATATATATATATATATATATATAT 300
Db 241 TAATCAATTAAGGGGATATGATATGACCGCAATATATATATATATATATATATATATAT 300
QY 301 ACGTAATATGCGCGCTGAGTACCGCCAGACAGACCCCGCCCATTTGACGTAATATATG 360

Db 301 ACGTAATATGCGCGCTGAGTACCGCCAGACAGACCCCGCCCATTTGACGTAATATATG 360
QY 361 ACGTATGTTCCCATATGTAAGCCAAATAGGAGCTTTCCATTTGACGTCATATGAGTATAT 420
Db 361 ACGTATGTTCCCATATGTAAGCCAAATAGGAGCTTTCCATTTGACGTCATATGAGTATAT 420
QY 421 TTACGGTAATATGCGGCACTTTGGCAATCATATGATATATATATATATATATATATAT 480
Db 421 TTACGGTAATATGCGGCACTTTGGCAATCATATGATATATATATATATATATATATATAT 480
QY 481 ATTTAGGTAATATGCGGCACTTTGGCAATCATATGATATATATATATATATATATATAT 540
Db 481 ATTTAGGTAATATGCGGCACTTTGGCAATCATATGATATATATATATATATATATATAT 540
QY 541 GACTTTCTACTTGGGAGTACATCTACGATTTAGTATGATATATATATATATATATATAT 600
Db 541 GACTTTCTACTTGGGAGTACATCTACGATTTAGTATGATATATATATATATATATATATAT 600
QY 601 TTTTGGCAGTACATCAATATGCGGCTGATATAGCGGTTTGAATCAAGGGGATTTCCAGTCT 660
Db 601 TTTTGGCAGTACATCAATATGCGGCTGATATAGCGGTTTGAATCAAGGGGATTTCCAGTCT 660
QY 661 CACCCATTTGAGTCAATATGAGGAGTTTGGTTCACCAAAATCAAGGGGATTTCCAGTCT 720
Db 661 CACCCATTTGAGTCAATATGAGGAGTTTGGTTCACCAAAATCAAGGGGATTTCCAGTCT 720
QY 721 TGTGTAAT 780
Db 721 TGTGTAAT 780
QY 781 TAT 840
Db 781 TAT 840
QY 841 TTTGACCTTCAT 900
Db 841 TTTGACCTTCAT 900
QY 901 GGAAGCGGATTCGCGGCTGCAAGAGTACGTAATAGCGGCTTATATATATATATATAT 960
Db 901 GGAAGCGGATTCGCGGCTGCAAGAGTACGTAATAGCGGCTTATATATATATATATAT 960
QY 961 ACCCTTTGAGTCTAT 1020
Db 961 ACCCTTTGAGTCTAT 1020
QY 1021 TCCCTAT 1080
Db 1021 TCCCTAT 1080
QY 1081 GACCACTTCCCTAT 1140
Db 1081 GACCACTTCCCTAT 1140
QY 1141 ACAACTATCTAT 1200
Db 1141 ACAACTATCTAT 1200
QY 1201 GATATTTTACAGAT 1260
Db 1201 GATATTTTACAGAT 1260
QY 1261 TCCCGGCGGCGGAGTTTAT 1320
Db 1261 TCCCGGCGGCGGAGTTTAT 1320
QY 1321 CGTGTTCGAGAT 1380
Db 1321 CGTGTTCGAGAT 1380
QY 1381 CCGATGCTTACAGGAT 1440

Db 1381 CCCATGCTCCAGCGGCTCATGCTGCGCTGCGAGCTCTTCTCTCTTAACATGAGAGCCA 1440
Qy 1441 GACTTAGGACACAGCATGATCCACCAACAGATGTGCGGACAGAGCGCTGCGGCTAG 1500
Db 1441 GACTTAGGACACAGCATGATCCACCAACAGATGTGCGGACAGAGCGCTGCGGCTAG 1500
Qy 1501 GGTATGTGTCTGAAAATGAGTCTGAGATCGGCTTGCACCGCTGACGAGATGGAAGAC 1560
Db 1501 GGTATGTGTCTGAAAATGAGTCTGAGATCGGCTTGCACCGCTGACGAGATGGAAGAC 1560
Qy 1561 TTAAGGACGCGGACAG 1620
Db 1561 TTAAGGACGCGGACAG 1620
Qy 1621 AGTAACTCCCTTGGCTGCTGTCTTAAAGGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1680
Db 1621 AGTAACTCCCTTGGCTGCTGTCTTAAAGGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1680
Qy 1681 TTGCTGCG 1740
Db 1681 TTGCTGCG 1740
Qy 1741 TGGGTCTTTTCTGCACTGACCGTCTT 1767
Db 1741 TGGGTCTTTTCTGCACTGACCGTCTT 1767

RESULT 10

US-09-886-942-13
Sequence 13, Application US/09886942
Patent No. US20020081708A1
GENERAL INFORMATION:
APPLICANT: PUNNONEN, JUHA
WRIGHT, ANNE
SEMYONOV, ANDREY
APPLICANT:
TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
FILE REFERENCE: 02-031910US
CURRENT APPLICATION NUMBER: US/09/886,942
CURRENT FILING DATE: 2001-06-21
PRIOR APPLICATION NUMBER: 60/213,829
PRIOR FILING DATE: 2000-06-23
NUMBER OF SEQ ID NOS: 40
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 13
LENGTH: 1765
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: oligonucleotide
US-09-886-942-13

Query Match 97.0%; Score 1714.2; DB 9; Length 1765;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1747; Conservative 0; Mismatches 18; Indels 2; Gaps 2;

Qy 1 1AATGAGCTATATCCCGATAGAGCGACATCAACCGGACATGCGCAATGCAATATG 60
Db 1 1AATGAGCTATATCCCGATAGAGCGACATCAACCGGACATGCGCAATGCAATATG 60
Qy 61 ATCTATACATTTGAATATTTGCAATTTAGCATTTATCTTGTGTTATATAGCATTA 120
Db 61 ATCTATACATTTGAATATTTGCAATTTAGCATTTATCTTGTGTTATATAGCATTA 120
Qy 121 ATCAATATTTGCTATTTGCGCATTTGATGTTTATCGTATCATATAATGATCAATTAT 180
Db 121 ATCAATATTTGCTATTTGCGCATTTGATGTTTATCGTATCATATAATGATCAATTAT 180
Qy 181 ATTGGCCATGTCATATGACCGGACATGTTGACATTTGATTTATTTATTTATTTAT 240
Db 181 ATTGGCCATGTCATATGACCGGACATGTTGACATTTGATTTATTTATTTATTTAT 240

Qy 241 TAATCAATTAAGGGGTCTATGTTATATAGCCATATATAGAGTTCCGGTTACATTA 300
Db 241 TAATCAATTAAGGGGTCTATGTTATATAGCCATATATAGAGTTCCGGTTACATTA 300
Qy 301 ACGTAATATGCGCGCTGAGTACCGGCAACGAGCCCGGCAATGAGCTCAATATAG 360
Db 301 ACGTAATATGCGCGCTGAGTACCGGCAACGAGCCCGGCAATGAGCTCAATATAG 360
Qy 361 ACGTATGTTCCCATATGTAACCGCAATAGGACTTTCCATTAAGCTCAATGAGTAT 420
Db 361 ACGTATGTTCCCATATGTAACCGCAATAGGACTTTCCATTAAGCTCAATGAGTAT 420
Qy 421 TTACGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 480
Db 421 TTACGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 480
Qy 481 ATTGAGTCAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 540
Db 481 ATTGAGTCAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 540
Qy 541 GACTTCTCTACTTGGCAGTACATCTACGTAATTAATGATGCTATTAATGATGAGTGG 600
Db 541 GACTTCTCTACTTGGCAGTACATCTACGTAATTAATGATGCTATTAATGATGAGTGG 600
Qy 601 TTTTGGCAGTACATCAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 660
Db 601 TTTTGGCAGTACATCAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 660
Qy 661 CACCCCATTTAGAGTCAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 720
Db 661 CACCCCATTTAGAGTCAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 720
Qy 721 TGTCTAATTAACCCCGGCTTGAAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 780
Db 721 TGTCTAATTAACCCCGGCTTGAAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 780
Qy 781 TATATAGCAGAGCTGTTTATGTAACCGTCAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 840
Db 781 TATATAGCAGAGCTGTTTATGTAACCGTCAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 840
Qy 841 TTTGACCTTCATTAAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 900
Db 841 TTTGACCTTCATTAAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 900
Qy 901 GGAACGCGGATTTCCCGGTAAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 960
Db 901 GGAACGCGGATTTCCCGGTAAGGTAATGAGGTAATGAGGTAATGAGGTAATGAGGTAAT 960
Qy 961 ACCCCTTGGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
Db 961 ACCCCTTGGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
Qy 1021 TCTTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080
Db 1021 TCTTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080
Qy 1081 GACCACTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
Db 1081 GACCACTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
Qy 1141 ACACATCTCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
Db 1141 ACACATCTCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
Qy 1201 GATATTTTACAGAGTGGGTCCCATTTATTTTCAATTTCAATTTCAATTTCAATTTCAAT 1260
Db 1201 GATATTTTACAGAGTGGGTCCCATTTATTTTCAATTTCAATTTCAATTTCAATTTCAAT 1260
Qy 1261 TCCCGGTCGCGGAGTTTATTTTAACTAGCGGAGTCTCCACGCGAATCTGGGTA 1320
Db 1261 TCCCGGTCGCGGAGTTTATTTTAACTAGCGGAGTCTCCACGCGAATCTGGGTA 1320
Qy 1321 CGTGTCCGACATGGGCTTTCTCCGGTAGGCGGTTCACATCCGAGCCCTGGT 1380
Db 1321 CGTGTCCGACATGGGCTTTCTCCGGTAGGCGGTTCACATCCGAGCCCTGGT 1380

Db 1319 CGGTTCGCGACAGGAGCTCTTCCCGGTAGCCGCGAGCTTCCACATCCGAGCCCTGTG 1378
Qy 1381 CCATGCGCTCAAGGACCTCATAGTGCCTCGGACAGCTCTTGTCTCCAAAGTGGAGGCA 1440
Db 1379 CCATGCGCTCAAGGAGCTCATAGTGCCTCGGACAGCTCTTGTCTCCAAAGTGGAGGCA 1438
Qy 1441 GACTTAGGCAAGACAGATGCCCAACCAACAGTGTGCCGACAGAGCCGTGGCGGTAG 1500
Db 1439 GACTTAGGCGACAGCAATGCCCAACCAACAGTGTGCCGACAGAGCCGTGGCGGTAG 1498
Qy 1501 GGTATGTGTGAAAAAGACCTGAGAGATGGGCTGCCACCGCTGAGAGAGATGAGAGAC 1560
Db 1499 GGTATGTGTGAAAAAGACCTGAGAGATGGGCTGCCACCGCTGAGAGAGATGAGAGAC 1558
Qy 1561 TTAAGCAGCGGCGAGAGAGACGACGAGCTAGTTGTGTGTCTGTAAGAGTCAAG 1620
Db 1559 TTAAGCAGCGGCGAGAGAGAGATGACGAGCTAGTTGTGTGTCTGTAAGAGTCAAG 1618
Qy 1621 AGGTAACTCCCGTTCGCGTCTGTAAACGCTGAGGCGAGTGTAGTGAAGTACTCG 1680
Db 1619 AGGTAACTCCCGTTCGCGTCTGTAAACGCTGAGGCGAGTGTAGTGAAGTACTCG 1678
Qy 1681 TTGCTGCGCGCGCGGCGACCAAGACATATAGCTGACGACTTAACGAGCTGTCTTCCA 1740
Db 1679 TTGCTGCGCGCGCGGCGACCAAGACATATAGCTGACGACTTAACGAGCTGTCTTCCA 1738
Qy 1741 TGGGCTCTTTCTGTCAGTCAACGCTCTT 1767
Db 1739 TGGGCTCTTTCTGTCAGTCAACGCTCTT 1765

RESULT 11

US-09-886-942-6
; Sequence 6, Application US/0986942
; Patent No. US2002081708A1
; GENERAL INFORMATION:
; APPLICANT: PUNNONEN, JUHA
; WRIGHT, ANNE
; SEMONOV, ANDREY
; APPLICANT:
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
; FILE REFERENCE: 02-031910US
; CURRENT APPLICATION NUMBER: US/09/886,942
; CURRENT FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/213,829
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1766
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-886-942-6

Query Match 96.1%; Score 1698.8; DB 9; Length 1766;
Best Local Similarity 98.3%; Pred. No. 0;
Matches 1738; Conservative 0; Mismatches 27; Indels 3; Gaps 2;
Qy 1 ATATGAGGCTATATCGCCGATAGAGGCGACATCAAGCGCGGACATGCGCAATGATATG 60
Db 1 ATATGAGGCTATATCGCCGATAGAGGCGACATCAAGCTGCGACATGCGCAATGATATG 60
Qy 61 ATCTATACATGTAATCAATATATGCAATATGCAATATATATATATATATAGCATTA 120
Db 61 ATCTATACATGTAATCAATATATGCAATATGCAATATATATATATATATAGCATTA 120
Qy 121 ATCAATATGCTATATGCGCATGTCATGCTTGTATCCGATCATATATATATATATAT 180
Db 121 ATCAATATGCTATATGCGCATGTCATGCTTGTATCCGATCATATATATATATATAT 180

Qy 181 ATTGCGCCATGTCCTCAATATAGCCGCAATGTGACATTTATATATATATATATATATAG 240
Db 181 ATTGCGCTATATGTCCTCAATATAGCCGCAATGTGACATTTATATATATATATATATAG 240
Qy 241 TATATCAATATACGGGCTATATGTCATACCCATATATAGAGTCCGCTTACATATCT 300
Db 241 TATATCAATATACGGGCTATATGTCATACCCATATATAGAGTCCGCTTACATATCT 300
Qy 301 ACGTAAATAGGCGCGCTGTCGACCGCCCAACGAGCCCGCCCATTTGACGTCAATATAG 360
Db 301 ACGTAAATAGGCGCGCTGTCGACCGCCCAACGAGCCCGCCCATTTGACGTCAATATAG 360
Qy 361 ACGTATGTTCCCATATAGTAAAGCCCAATAGGAGCTTTCATTTGACGTCAATAGGTGAT 420
Db 361 ACGTATGTTCCCATATAGTAAAGCCCAATAGGAGCTTTCATTTGACGTCAATAGGTGAT 420
Qy 421 TTAAGCTAAATGCGCCATCTGGCAGATCAATCAAGTATCATATGCGCAAGTCCG -CCCC 479
Db 421 TTAAGCTAAATGCGCCATCTGGCAGATCAATCAAGTATCATATGCGCAAGTCCGCGCC 480
Qy 480 TATGACGTCAATGACGTAATATGCGCCGCTGCGATTTATGCGCAGTATGACATGACTTAC 539
Db 481 TATGACGTCAATGACGTAATATGCGCCGCTGCGATTTATGCGCAGTATGACATGACTTAC 540
Qy 540 GGACTTTCCTACTGCGAGTACATCTAGTATTTAGTATGCTATTTACATGAGTATGCG 599
Db 541 GGACTTTCCTACTGCGAGTACATCTAGTATTTAGTATGCTATTTACATGAGTATGCG 600
Qy 600 GTTTTGGCAGTACATCAATGCGCGTGTATAGGCGTTTGACTACGCGGGAATTTCCAAAGT 659
Db 601 GTTTTGGCAGTACATCAATGCGCGTGTATAGGCGTTTGACTACGCGGGAATTTCCAAAGT 660
Qy 660 CCACCCCATTTGACGTCAATGAGGAGTTTGTGTCACCAATATCAAGGAGCTTTCCAA 719
Db 661 CCACCCCATTTGACGTCAATGAGGAGTTTGTGTCACCAATATCAAGGAGCTTTCCAA 720
Qy 720 ATGTGCTAATTAACCCGCGCCGCTTGAACGCAATGCGGCGGTAGCGGTGAGAGGT 779
Db 721 ATGTGCTAATTAACCCGCGCCGCTTGAACGCAATGCGGCGGTAGCGGTGAGAGGT 780
Qy 780 CTATATACAGAGCTCGTTTATGTAACCTGATGCTGTGTAAGCGCATCCAGCTG 839
Db 781 CTATATACAGAGCTCGTTTATGTAACCTGATGCTGTGTAAGCGCATCCAGCTG 840
Qy 840 TTTTGAACCTCCATAGAGACACCGGAGCCGATCCAGCTCCGCGCGGGAACGCTGAT 899
Db 841 TTTTGAACCTCCATAGAGACACCGGAGCCGATCCAGCTCCGCGCGGGAACGCTGAT 900
Qy 900 TGGAGCGCGGATTTCCCGTGCCAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 959
Db 901 TGGAGCGCGGATTTCCCGTGCCAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 960
Qy 960 CACCCCTTTGCGCTTATAGTATGCTATGCTTTTGGCTTGGGCTTATACACCCCGC 1019
Db 961 CACCCCTTTGCGCTTATAGTATGCTATGCTTTTGGCTTGGGCTTATACACCCCGC 1020
Qy 1020 TTCTTATAGCTATAGGATGATAGCTTATAGCTTATAGGCGTGGGTTATGACATAT 1079
Db 1021 TTCTTATAGCTATAGGATGATAGCTTATAGCTTATAGGCGTGGGTTATGACATAT 1080
Qy 1080 TGACCACTCCCTATTTGTCAGATACCTTTCATTAATCATATACATGAGCTCTTTC 1139
Db 1081 TGACCACTCCCTATTTGTCAGATACCTTTCATTAATCATATACATGAGCTCTTTC 1140
Qy 1140 CACAACATCTCTATTTGCTATATGCAATATCTGTCTTATAGAGTCAAGAGCTC 1199
Db 1141 CACAACATCTCTATTTGCTATATGCAATATCTGTCTTATAGAGTCAAGAGCTC 1200
Qy 1200 TGTATTTTAAAGAGATGCGGCTCCATTTATTTATTTAAATTTCAATATCAACAACGCG 1259
Db 1201 TGTATTTTAAAGAGATGCGGCTCCATTTATTTATTTAAATTTCAATATCAACAACGCG 1260

QY 1260 GTCCTCCGCGCCGAGTTTATTAAATAGCGTGGATCTCCACGCGAATCTCGGAT 1319
DB 1261 GTCCTCCAGGCGCCGAGTTTATTAAATAGCGTGGATCTCCACGCGAATCTCGGAT 1320
QY 1320 AGGTGTCGAGCATGGGCTCTTCGCGGTAGCGGGGCTTCCACATCCGAGCCCTGG 1379
DB 1321 AGGTGTCGAGCATGGGCTCTTCGCGGTAGCGGGGCTTCCACATCCGAGCCCTGG 1380
QY 1380 TCCCATGCTCCAGCGACTCATGTGCTCGGAGCTCTCTCCCAAGTGGAGGCC 1439
DB 1381 TCCCATGCTCCAGCGACTCATGTGCTCGGAGCTCTCTCCCAAGTGGAGGCC 1440
QY 1440 AGACTTGGCAGACGACATGCCACACCAACAGTGTCCGCAAGGCCGCTGGGTA 1499
DB 1441 AGACTTGGCAGACGACATGCCACACCAACAGTGTCCGCAAGGCCGCTGGGTA 1500
QY 1500 GGGTATGTCGAAATAGCTCGGAGATCGGGGCTCCGACCGCTGACCGCAATGGAA 1559
DB 1501 GGGTATGTCGAAATAGCTCGGAG--TGGGCTTGACCGCTGACCGCAATGGAA 1558
QY 1560 CTTAAGCGACGCGAGAAAGACGAGCGAGCTGTTGTGTTGATTAAGATCA 1619
DB 1559 CTTAAGCGACGCGAGAAAGATGAGCGAGCTGTTGTGTTGATTAAGATCA 1618
QY 1620 GAGTAACTCCGCTGGGTGCTTTAAGCGTGGAGGCGAGTGTAGTGAAGATCA 1679
DB 1619 GAGTAACTCCGCTGGGTGCTTTAAGCGTGGAGGCGAGTGTAGTGAAGATCA 1678
QY 1680 GTTGTGCGCGCGCGCGCCACGACATTAAGTGAACATTAAGGATGTTCTTTC 1739
DB 1679 GTTGTGCGCGCGCGCGCCACGACATTAAGTGAACATTAAGGATGTTCTTTC 1738
QY 1740 ATGGGCTTTTCTGCAAGTCAAGCTCTT 1767
DB 1739 ATGGGCTTTTCTGCAAGTCAAGCTCTT 1766

RESULT 12
US-10-016-986-156

; Sequence 156, Application US/10016986
; Publication No. US20030187247A1
; GENERAL INFORMATION:
; APPLICANT: Burton, Dennis R
; APPLICANT: Bardas, Carlos F
; APPLICANT: Lerner, Richard A
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; FILE REFERENCE: 313.2CON1
; CURRENT APPLICATION NUMBER: US/10/016,986
; CURRENT FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 09/149,898
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: US 08/899,575
; PRIOR FILING DATE: 1997-07-24
; PRIOR APPLICATION NUMBER: US 08/276,852
; PRIOR FILING DATE: 1994-07-18
; PRIOR APPLICATION NUMBER: US 08/178,302
; PRIOR FILING DATE: 1994-01-06
; PRIOR APPLICATION NUMBER: PCT/US93/09328
; PRIOR FILING DATE: 1993-09-30
; PRIOR APPLICATION NUMBER: US 07/954,148
; PRIOR FILING DATE: 1993-09-30
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 156
; LENGTH: 13254
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthesized
US-10-016-986-156

Query Match 95.9%; Score 1695.2; DB 13; Length 13254;

Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;
QY 1 ATATAGGCTATATAGCGGATAGAGGACATCAAGCGGACATGCGCAATGATATG 60
DB 608 ATATAGGCTATATAGCGGATAGAGGACATCAAGCGGACATGCGCAATGATG 667
QY 61 ATCTATACATTAATCAATATTTGGCAATTAAGCATATTAATGTTATATATAG 120
DB 668 ATCTATACATTAATCAATATTTGGCAATTAAGCATATTAATGTTATATATAG 727
QY 121 ATCAATATTTGGCTATTTGGCCATTTGATACCTTTGATCCGATCATTAATG 180
DB 728 ATCAATATTTGGCTATTTGGCCATTTGATACCTTTGATCCGATCATTAATG 787
QY 181 ATTTGGCCATTTGCAATATGACCGGATTTGACATTTGATTTAGTATTAATG 240
DB 788 ATTTGGCTATTTGCAATATGACCGGATTTGACATTTGATTTAGTATTAATG 847
QY 241 TAATCAATTAAGGGGTCAATTAATGATCCCATATATGAGTTCCGCTTACATAT 300
DB 848 TAATCAATTAAGGGGTCAATTAATGATCCCATATATGAGTTCCGCTTACATAT 907
QY 301 ACGTAAATGGCCCGCTGGCTGACCGGCCAAGACCCCGCCATTGACGTAATATG 360
DB 908 ACGTAAATGGCCCGCTGGCTGACCGGCCAAGACCCCGCCATTGACGTAATATG 967
QY 361 ACGTAAATGGCCCGCTGGCTGACCGGCCAAGACCCCGCCATTGACGTAATATG 420
DB 968 ACGTAAATGGCCCGCTGGCTGACCGGCCAAGACCCCGCCATTGACGTAATATG 1027
QY 421 TTACGCTAACTGCGCCACTTGGCAGTACATCAAGTATCATATATGCGGCCCT 480
DB 1028 TTACGCTAACTGCGCCACTTGGCAGTACATCAAGTATCATATATGCGGCCCT 1087
QY 481 ATTTAGCTAATGACGTAATATGCGCCGCTGGCATTAATGCCAGTACATGACT 540
DB 1088 ATTTAGCTAATGACGTAATATGCGCCGCTGGCATTAATGCCAGTACATGACT 1147
QY 541 GACTTCTCACTTGGCAGTACATCAAGTATCATATATGCGGCCCT 600
DB 1148 GACTTCTCACTTGGCAGTACATCAAGTATCATATATGCGGCCCT 1207
QY 601 TTTTGGCAGTACATCAATGCGGCTGATAGCGGTTTGAATCAAGGAGATTTCA 660
DB 1208 TTTTGGCAGTACATCAATGCGGCTGATAGCGGTTTGAATCAAGGAGATTTCA 1267
QY 661 CACCCCATTTGACGTAATGGAAGTTGTTTGGACCAAAATCAACGGGACTTTCA 720
DB 1268 CACCCCATTTGACGTAATGGAAGTTGTTTGGACCAAAATCAACGGGACTTTCA 1327
QY 721 TGTCTTAATACCCCGCCCGCTTGAACGAAATGGGCGGTGATAGGTGGAGGTC 780
DB 1328 TGTCTTAATACCCCGCCCGCTTGAACGAAATGGGCGGTGATAGGTGGAGGTC 1387
QY 781 TATATAGAGAGAGCTGTTTATGTAACCGTCAATGCGCTGGAGAGCGCATCA 840
DB 1388 TATATAGAGAGAGCTGTTTATGTAACCGTCAATGCGCTGGAGAGCGCATCA 1447
QY 841 TTTGACCTTCATAGAAAGACCGGAGACGATCCGCGGCGCGGAGCGGTGAT 900
DB 1448 TTTGACCTTCATAGAAAGACCGGAGACGATCCGCGGCGCGGAGCGGTGAT 1507
QY 901 GGAAGCGGATTCGCCGCGGCAAGAGTACGTAAGTACCGCTATATAGGAC 960
DB 1508 GGAAGCGGATTCGCCGCGGCAAGAGTACGTAAGTACCGCTATATAGGAC 1567
QY 961 ACCCTTTGGC-TCTTATGAGTATATCTGTTTGGCTTGGGCTATACACCCCGC 1019
DB 1568 ACCCTTTGGCTTCTTATGAGTATATCTGTTTGGCTTGGGCTATATACACCCCGC 1627
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Db 1628 TTCCTATGTTAAGTGAATGATAGCTTACCTTACCTTACCTTACCTTACCTTAT 1687
Qy 1080 TGAACAATCCCTATGTTGATGACATCTTTCATTAATCAATCAATCAATGCTTTGG 1139
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Db 1928 AGCTGTTCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1987
Qy 1380 TCCCATGCTCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1439
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Db 2348 ATGGGTCTTTTTCGAGTACCGCTCTT 2375

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RESULT 13
US-10-016-986-170/c
; Sequence 170, Application US/10016986
; Publication No. US20030187247A1
; GENERAL INFORMATION:
; APPLICANT: Burton, Dennis R
; APPLICANT: Barbas, Carlos F
; APPLICANT: Lerner, Richard A
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; FILE REFERENCE: 313.2CON1
; CURRENT APPLICATION NUMBER: US/10/016,986
; CURRENT FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 09/149,898
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: US 08/899,575
; PRIOR FILING DATE: 1997-07-24
; PRIOR APPLICATION NUMBER: US 08/276,852
; PRIOR FILING DATE: 1994-07-18
; PRIOR APPLICATION NUMBER: US 08/178,302
; PRIOR FILING DATE: 1994-01-06
; PRIOR APPLICATION NUMBER: PCT/US93/09328

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; PRIOR FILING DATE: 1993-09-30
; PRIOR APPLICATION NUMBER: US 07/954,148
; PRIOR FILING DATE: 1992-09-30
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 170
; LENGTH: 13254
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthesized
US-10-016-986-170

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Query Match 95.9%; Score 1695.2; DB 13; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

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Qy 181 ATTTGCGCATATGCAATATGACCGCATGATGATGATGATGATGATGATGATGATGATG 240
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Qy 661 CACCCATTAAGTCAATGAGGAGTTTGTGGCAACAAATCAACGGGATTTTCAAA 720
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Qy 781 TATTAAGGAGGCTGTTTGAATGAGCGTGAATGAGCGGATTAATTAATTAATTAATTA 840
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 Db 840 TTGACCTCCATAGAGACACCGGAGCAGATCCAGCCCTCCGCGCGGAGACGGTGCATT 899
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 Db 1740 ATGGGCTTTTCTGCACTACCGTCTT 1767

RESULT 15
 US-09-886-942-17
 ; Sequence 17: Application US/09886942
 ; Patent No. US20020081708A1
 ; GENERAL INFORMATION:
 ; APPLICANT: PUNNONEN, JUHA

; WRIGHT, ANNE
 ; SEMONOV, ANDREY
 ; APPLICANT:
 ; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
 ; FILE REFERENCE: 02-031910US
 ; CURRENT APPLICATION NUMBER: US/09/886,942
 ; CURRENT FILING DATE: 2001-06-21
 ; PRIOR APPLICATION NUMBER: 60/213,829
 ; NUMBER OF SEQ ID NOS: 40
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 17
 ; LENGTH: 1757
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 ; OTHER INFORMATION: oligonucleotide
 US-09-886-942-17

Query Match 94.5%; Score 1669.8; DB 9; Length 1757;
 Best Local Similarity 97.1%; Pred. No. 0;
 Matches 1715; Conservative 0; Mismatches 42; Indels 10; Gaps 1;

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Db 1731 TGGGCTTTTCTGCACTCACCGTCTT 1757
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OM nucleic - nucleic search, using sw model

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(without alignments)
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents, NA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1695.2	95.9	13254	1	US-08-276-852-156 Sequence 156, App
2	1695.2	95.9	13254	1	US-08-276-852-170 Sequence 170, App
3	1695.2	95.9	13254	1	US-08-899-575-156 Sequence 156, App
4	1695.2	95.9	13254	1	US-08-899-575-170 Sequence 170, App
5	1695.2	95.9	13254	1	US-08-899-575-156 Sequence 156, App
6	1695.2	95.9	13254	1	US-08-899-575-170 Sequence 170, App
7	1695.2	95.9	13254	5	PCT-US95-08743-156 Sequence 156, App
8	1695.2	95.9	13254	5	PCT-US95-08743-170 Sequence 170, App
9	1620.6	91.7	4326	3	US-08-760-615-7 Sequence 7, Appl1
10	1590.6	90.0	15538	4	US-09-554-337-1 Sequence 1, Appl1
11	1581	89.5	4928	1	US-08-345-913-1 Sequence 1, Appl1
12	1581	89.5	4928	3	US-08-818-562-1 Sequence 1, Appl1
13	1581	89.5	4928	4	US-09-628-445-1 Sequence 1, Appl1
14	1574.8	89.1	3547	4	US-09-340-798A-43 Sequence 43, Appl1
15	1572.8	89.0	4864	4	US-09-340-798A-1 Sequence 1, Appl1
16	1570.2	88.9	5899	4	US-09-173-053-2 Sequence 2, Appl1
17	1560.8	88.3	5662	2	US-08-663-998-3 Sequence 3, Appl1
18	1560.8	88.3	5662	2	US-08-663-998-4 Sequence 4, Appl1
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20	1560.8	88.3	5900	2	US-08-663-998-1 Sequence 1, Appl1
21	1560.8	88.3	5952	2	US-08-663-998-2 Sequence 2, Appl1
22	1556.2	88.1	4915	4	US-09-173-053-7 Sequence 7, Appl1
23	1553	87.9	5215	4	US-09-173-053-8 Sequence 8, Appl1
24	1548.2	87.6	9600	3	US-08-910-647-1 Sequence 1, Appl1
25	1548.2	87.6	9600	4	US-09-620-925-1 Sequence 1, Appl1
26	1547.8	87.6	4328	3	US-09-132-808-1 Sequence 1, Appl1
27	1547.8	87.6	4328	3	US-08-910-647-2 Sequence 2, Appl1

28	1547.8	87.6	4328	4	US-09-620-925-2 Sequence 2, Appl1
29	1547.8	87.6	4328	4	US-09-620-260-1 Sequence 1, Appl1
30	1547.8	87.6	4328	4	US-09-620-259-1 Sequence 1, Appl1
31	1547.8	87.6	4818	3	US-08-910-647-4 Sequence 4, Appl1
32	1547.8	87.6	4818	4	US-09-620-925-4 Sequence 4, Appl1
33	1547.8	87.6	5107	3	US-08-910-647-3 Sequence 3, Appl1
34	1547.8	87.6	5107	4	US-09-620-925-3 Sequence 3, Appl1
35	1547.8	87.6	7015	4	US-09-770-315-1 Sequence 1, Appl1
36	1480.2	83.8	7731	4	US-09-301-593-29 Sequence 29, Appl1
37	1480.2	83.8	7731	4	US-09-301-593-42 Sequence 42, Appl1
38	1480.2	83.8	8068	4	US-09-301-593-27 Sequence 27, Appl1
39	1480.2	83.8	8068	4	US-09-301-593-35 Sequence 35, Appl1
40	1393	78.8	3125	2	US-08-037-816A-13 Sequence 13, Appl1
41	1393	78.8	3125	2	US-08-530-146-13 Sequence 13, Appl1
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45	897.2	50.8	930	1	US-08-246-376-2 Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-08-276-852-156
; Sequence 156, Application US/08276852
; Patent No. 5652138
; GENERAL INFORMATION:
; APPLICANT: Burton, Dennis R
; APPLICANT: Barbab, Carlos F
; APPLICANT: Lerner, Richard A
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; NUMBER OF SEQUENCES: 170
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: The Scripps Research Institute, Office of
; ADDRESSEE: Patent Counsel
; STREET: 10666 Noy. 5652138th Torrey Pines Road, Suite 220,
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/276, 852
; FILING DATE: 18-JUL-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/178,302
; FILING DATE: 30-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/954,148
; FILING DATE: 30-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Fitting, Thomas
; REGISTRATION NUMBER: 34,163
; REFERENCE/DOCKET INFORMATION: SCRI452P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-554-2937
; TELEFAX: 619-554-6312
; INFORMATION FOR SEQ ID NO: 156:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13254 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; US-08-276-852-156

Query Match 95.9%; Score 1695.2; DB 1; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

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QY 1 ATATGAGGCTATATCGCCGATAGAGGAGCATCAAGCCGACATGGCCCATGCTATCG 60
DB 608 ATATGAGGCTATATCGCCGATAGAGGAGCATCAAGCCGACATGGCCCATGCTATCG 667
QY 61 ATCATATGATGATCAATATATGAGCATATAGCCATATATATATGATATAGCATTA 120
DB 668 ATCATATGATGATCAATATATGAGCATATAGCCATATATATATGATATAGCATTA 727
QY 121 ATCAATATGAGCATATGAGCATATGAGCATATGAGCATATGAGCATATGAGCAT 180
DB 728 ATCAATATGAGCATATGAGCATATGAGCATATGAGCATATGAGCATATGAGCAT 787
QY 181 ATGGCCCATGTCATATAGACCGCATGTTGACATGATATATGATATATAG 240
DB 788 ATGGCCCATGTCATATAGACCGCATGTTGACATGATATATGATATATAG 847
QY 241 TAATCAATATGAGGATATGATATGAGCATATGAGCATATGAGCATATGAGCAT 300
DB 848 TAATCAATATGAGGATATGATATGAGCATATGAGCATATGAGCATATGAGCAT 907
QY 301 ACCGTAATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 360
DB 908 ACCGTAATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 967
QY 361 ACCTATATGAGCATATGAGCATATGAGCATATGAGCATATGAGCATATGAGCAT 420
DB 968 ACCTATATGAGCATATGAGCATATGAGCATATGAGCATATGAGCATATGAGCAT 1027
QY 421 TTAGGTAATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 480
DB 1028 TTAGGTAATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 1087
QY 481 ATTGAGCATATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 540
DB 1088 ATTGAGCATATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 1147
QY 541 GACTTTCTTACTTGGCAGTACATCTAGTATGATATGATATGATATGATATGAT 600
DB 1148 GACTTTCTTACTTGGCAGTACATCTAGTATGATATGATATGATATGATATGAT 1207
QY 601 TTTTGGAGTACATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 660
DB 1208 TTTTGGAGTACATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 1267
QY 661 CACCCCATGAGCATATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 720
DB 1268 CACCCCATGAGCATATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 1327
QY 721 TGTGTAATATACCCCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 780
DB 1328 TGTGTAATATACCCCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 1387
QY 781 TATATAGAGGAGCATATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 840
DB 1388 TATATAGAGGAGCATATGAGCGCGCTGCTGACCGCCCAACGACCCCGCCCATGAGCATATAG 1447
QY 841 TTTGACCTCATATGAGAGACCGGAGCATATGAGCGCGCTGCTGACCGCCCAACGAGTAT 900
DB 1448 TTTGACCTCATATGAGAGACCGGAGCATATGAGCGCGCTGCTGACCGCCCAACGAGTAT 1507
QY 901 GGAACGCGATATCCCGCTGCTGACCGAGTATGAGCGCGCTGCTGACCGCGCTGAGTAT 960
DB 1508 GGAACGCGATATCCCGCTGCTGACCGAGTATGAGCGCGCTGCTGACCGCGCTGAGTAT 1567
QY 961 ACCGCTTTGGC-1CTTATGATGATATGATATGATATGATATGATATGATATGAT 1019
DB 1568 ACCGCTTTGGC-1CTTATGATGATATGATATGATATGATATGATATGATATGATATGAT 1627
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QY 1020 TTCCTATATGATATGAGTATGATATGATATGATATGATATGATATGATATGATAT 1079
DB 1628 TTCCTATATGATATGATATGATATGATATGATATGATATGATATGATATGATAT 1687
QY 1080 TGACCACTCCCTATGAGTATGATATGATATGATATGATATGATATGATATGATAT 1139
DB 1688 TGACCACTCCCTATGAGTATGATATGATATGATATGATATGATATGATATGATAT 1747
QY 1140 CACAATATCTATGATATGATATGATATGATATGATATGATATGATATGATATGATAT 1199
DB 1748 CACAATCTCTTATGATATGATATGATATGATATGATATGATATGATATGATATGATAT 1807
QY 1200 TGTATTTTACAGAGTATGATATGATATGATATGATATGATATGATATGATATGATAT 1259
DB 1808 TGTATTTTACAGAGTATGATATGATATGATATGATATGATATGATATGATATGATAT 1867
QY 1260 GTCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1319
DB 1868 GTCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1927
QY 1320 AGCTTTCCGAGCATGAGCTCTTCTCGGATGAGCGCGCGCGCGCGCGCGCGCGCGCGCG 1379
DB 1928 AGCTTTCCGAGCATGAGCTCTTCTCGGATGAGCGCGCGCGCGCGCGCGCGCGCGCGCG 1987
QY 1380 TCCCATGCTCCAGGAGCTCATGATGCTGAGGAGCTCTTCTCGGATGAGCGCGCGCGCGCG 1439
DB 1988 TCCCATGCTCCAGGAGCTCATGATGCTGAGGAGCTCTTCTCGGATGAGCGCGCGCGCGCG 2047
QY 1440 AGACTTATGAGCATGAGCATGAGCATGAGCATGAGCATGAGCATGAGCATGAGCATGAG 1499
DB 2048 AGACTTATGAGCATGAGCATGAGCATGAGCATGAGCATGAGCATGAGCATGAGCATGAG 2107
QY 1500 GGGTATGCTGTAATATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTAT 1559
DB 2108 GGGTATGCTGTAATATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTAT 2167
QY 1560 CTTAAGCAGCGCGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1619
DB 2168 CTTAAGCAGCGCGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2227
QY 1620 GAGTATCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1679
DB 2228 GAGTATCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2287
QY 1680 GTTGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1739
DB 2288 GTTGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2347
QY 1740 ATGGGTCTTTCTGAGTACCGCTCTT 1767
DB 2348 ATGGGTCTTTCTGAGTACCGCTCTT 2375
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RESULT 2
US-08-276-852-170/c
Sequence 170, Application US/08276852
Patent No. 5652138
GENERAL INFORMATION:
APPLICANT: Burton, Dennis R
APPLICANT: Barbas, Carlos F
APPLICANT: Lerner, Richard A
TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
NUMBER OF SEQUENCES: 170
CORRESPONDENCE ADDRESS:
ADDRESSEE: The Scripps Research Institute, Office of
ADDRESSEE: Patent Counsel
STREET: 10666 No. 5652138th Torrey Pines Road, Suite 220,
STREET: Mail Drop TPC8
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037


```

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/06/276,852
  FILING DATE: 18-JUL-1994
  CLASSIFICATION: 514
  PRIORITY APPLICATION DATA:
    APPLICATION NUMBER: US 08/178,302
    FILING DATE: 30-SEP-1993
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 07/954,148
    FILING DATE: 30-SEP-1992
  ATTORNEY/AGENT INFORMATION:
    NAME: Fitting, Thomas
    REGISTRATION NUMBER: 34,163
    REFERENCE/DOCKET NUMBER: SCR1452P
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: 619-554-2937
    TELEFAX: 619-554-6312
  INFORMATION FOR SEQ ID NO: 170:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 13254 base pairs
      TYPE: nucleic acid
      STRANDEDNESS: double
      TOPOLOGY: circular
      MOLECULE TYPE: DNA (genomic)
US-08-276-852-170

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Query Match 95.9%; Score 1695.2; DB 1; Length 13254;

Best Local Similarity 97.8%; Pred. No. 0;

Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

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QY 1 ATATGAGCTATATGCGCCATATGAGCGCATACAGCCGCGACATGCGCAATGCGATATG 60
DB 12647 ATATGAGCTATATGCGCCATATGAGCGCGCATACAGCCGCGACATGCGCAATGCG 12588
QY 61 ATCTATACCTTGAATCAATATGCGCAATGAGCATTTATTCATTTGTTATATGAGATA 120
DB 12587 ATCTATACCTTGAATCAATATGCGCAATGAGCATTTATTCATTTGTTATATGAGATA 12528
QY 121 ATCAATATGCGCATATGCGCATATGAGCGTATCGTATCATATATATGATATTTAT 180
DB 12527 ATCAATATGCGCATATGCGCATATGAGCGTATCGTATCATATATATGATATTTAT 12468
QY 181 ATTGGCCCATGTCATATATGAGCGCGCATGTTGACATTTGATTTATGATTTATTAAG 240
DB 12467 ATTGGCCCATGTCATATATGAGCGCGCATGTTGACATTTGATTTATGATTTATTAAG 12408
QY 241 TATATCAATATGCGCGCATATGAGTTCATACCCATATATGAGAGTTCGCGCTTACATACTT 300
DB 12407 TATATCAATATGCGCGCATATGAGTTCATACCCATATATGAGAGTTCGCGCTTACATACTT 12348
QY 301 AGCGTAATATGCGCGCGCTGAGTACCGCCCAAGACCGCCCGCCCATTTGAGCGTCAATATG 360
DB 12347 AGCGTAATATGCGCGCGCTGAGTACCGCCCAAGACCGCCCGCCCATTTGAGCGTCAATATG 12288
QY 361 AGGTATGTTCCCATAGTAAAGCGCAATAGGAGCTTTTCATTTGAGCGTCAATAGGAGTAT 420
DB 12287 AGGTATGTTCCCATAGTAAAGCGCAATAGGAGCTTTTCATTTGAGCGTCAATAGGAGTAT 12228
QY 421 TTAACGTAATATGCGCGCATTTGAGGATCAATCAAGTGTATCATATGCGCAAGTCCGCCCT 480
DB 12227 TTAACGTAATATGCGCGCATTTGAGGATCAATCAAGTGTATCATATGCGCAAGTCCGCCCT 12168
QY 481 ATTAGAGTCAATGAGCGTAATATGCGCGCGCTGAGCATTTATGCGCGAGTACATGACCTTACG 540
DB 12167 ATTAGAGTCAATGAGCGTAATATGCGCGCGCTGAGCATTTATGCGCGAGTACATGACCTTATG 12108
QY 541 GACTTTCTATCTTTGGAGTACATCTACGATTTAGTCAATGCTATTTACATGATGATGCGG 600

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DB 12107 GACTTTCTATCTTTGGAGTACATCTACGATTTAGTCAATGCTATTTACCATGATGATGCGG 12048
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DB 12047 TTTTGGAGTACATCAATGAGCGGTGATAGCGGTTTGACTCAAGGAGATTTTCAAGTCTC 11988
QY 661 CACCCCATTTGAGCGTCAATGAGAGTTTGTGTTGGACCAAAATCAACGGGACCTTTCCAAA 720
DB 11987 CACCCCATTTGAGCGTCAATGAGAGTTTGTGTTGGACCAAAATCAACGGGACCTTTCCAAA 11928
QY 721 TGTGTAATTAACCCCGCGCGTGAAGCAATATGAGCGGTGATAGCGGTTTGAAGGATC 780
DB 11927 TGTGTAATTAACCCCGCGCGTGAAGCAATATGAGCGGTGATAGCGGTTTGAAGGATC 11868
QY 781 TATATAGCAGAGCTCGTTTATGAGAACCGTCAATGCGCTGAGAGACCGCATCAAGCTGT 840
DB 11867 TATATAGCAGAGCTCGTTTATGAGAACCGTCAATGCGCTGAGAGACCGCATCAAGCTGT 11808
QY 841 TTTGACCTTCATAGAAACACCGGAGCCGATCCAGCTCCCGGCGCGGAAACGTTGCAAT 900
DB 11807 TTTGACCTTCATAGAAACACCGGAGCCGATCCAGCTCCCGGCGCGGAAACGTTGCAAT 11748
QY 901 GGAAGCGGATTTCCCGCGGCAAGAGTACGTAAGTACCGCTATAGACTCTATAGGAC 960
DB 11747 GGAAGCGGATTTCCCGCGGCAAGAGTACGTAAGTACCGCTATAGACTCTATAGGAC 11688
QY 961 ACCCCTTTGGC-TCTTATGAGTATGCTATCTGTTTGGCTTGGGCTATACACCCCGC 1019
DB 11687 ACCCCTTTGGCTTATGAGTATGCTATCTGTTTGGCTTGGGCTATACACCCCGC 11628
QY 1020 TTTCTTATGCTATATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTAT 1079
DB 11627 TTTCTTATGCTATATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTAT 11568
QY 1080 TGACACATCCCGCTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTAT 1139
DB 11567 TGACACATCCCGCTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTAT 11508
QY 1140 CACACTATCTCTATTTGCTATATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTAT 1199
DB 11507 CACACTATCTCTATTTGCTATATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTAT 11448
QY 1200 TGTATTTTTCAGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTAT 1259
DB 11447 TGTATTTTTCAGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTAT 11388
QY 1260 GTCCCCCGTCCCGGAGTATTTTATTAACATATGCTGAGTATCTCAACGGAATCTCGG 1319
DB 11387 GTCCCCCGTCCCGGAGTATTTTATTAACATATGCTGAGTATCTCAACGGAATCTCGG 11328
QY 1320 AGGTGTCGAGCATGAGGCTCTTCCGCTAGCGGAGGAGGCTTCCACATCCGAGCCCTGG 1379
DB 1320 AGGTGTCGAGCATGAGGCTCTTCCGCTAGCGGAGGAGGCTTCCACATCCGAGCCCTGG 1379
QY 1380 TCCCATGCTCCAGGAGTCAATGATGCTGCTGCGAGCTCTCTGCTCCAAAGTGAAGGCC 1439
DB 11327 AGGTGTCGAGCATGAGGCTCTTCCGCTAGCGGAGGAGGCTTCTCAATCCGAGCCCTGG 11268
QY 1440 AAGCTTAAAGCAGACGATGCTCCACACCAAGTGTGCGGACCAAGGCGGTGCGGTA 1499
DB 11267 TCCCATGCTCCAGGAGTCAATGATGCTGCTGCGAGCTCTCTGCTCCAAAGTGAAGGCC 11208
QY 1500 GGGTATGCTGTAAGAAATGAGTCCGGAAGTGGGGCTCGACGCGTGAAGGAGGAGTA 1559
DB 11147 GGGTATGCTGTAAGAAATGAGTCCGGAAGTGGGGCTCGACGCGTGAAGGAGGAGTA 11088
QY 1560 CTTAAAGCAGCGGAGAAAGACGACGAGCAAGTATGTTGTTGTTGATTAAGAGTCA 1619
DB 11087 CTTAAAGCAGCGGAGAAAGACGAGCAAGTATGTTGTTGTTGATTAAGAGTCA 11028
QY 1620 GAGGTATCTCCGCTGCGGTCTGTTAAAGTGTGAGGAGGAGTATGTTGATGAGTATCTC 1679
DB 11027 GAGGTATCTCCGCTGCGGTCTGTTAAAGTGTGAGGAGGAGTATGTTGATGAGTATCTC 10968

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QY 1680 GTTGCTGCGCGCGCGCCAGACATATAGCTGACAGCTTAACGAGCTGTTCTTCC 1739
DB 10967 GTTGCTGCGCGCGCGCCAGACATATAGCTGACAGCTTAACGAGCTGTTCTTCC 10908
QY 1740 ATGGCTCTTTCGCACTACCGCTT 1767
DB 10907 ATGGCTCTTTCGCACTACCGCTT 10880

RESULT 3

US-08-899-575-156
Sequence 156, Application US/08899575
Patent No. 5770440
GENERAL INFORMATION:
APPLICANT: Burton, Dennis R
APPLICANT: Barbas, Carlos F
APPLICANT: Lerner, Richard A
TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
NUMBER OF SEQUENCES: 170
CORRESPONDENCE ADDRESS:
ADDRESSEE: The Scripps Research Institute, Office of
STREET: 10666 No. 5770440th Torrey Pines Road, Suite 220,
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/899,575
CLASSIFICATION: 435
FILING DATE: 24-JUL-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/276,852
FILING DATE: 18-JUL-1994
APPLICATION NUMBER: US 08/178,302
FILING DATE: 30-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/954,148
FILING DATE: 30-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: SCRI452P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312
INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHARACTERISTICS:
LENGTH: 13254 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
US-08-899-575-156

Query Match 95.9%; Score 1695.2; DB 1; Length 13254;

Best Local Similarity 97.8%; Pred. No. 0; Mismatches 38; Indels 1; Gaps 1;

Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

QY 1 ATATGAGCTATATCGCGATAGAGCGACATCAAGCCGCGACATGCGCATATCG 60
DB 608 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATGCGCATATCG 667
QY 61 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 120

DB 668 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 727
QY 121 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 180
DB 728 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 787
QY 181 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 240
DB 788 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 847
QY 241 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 300
DB 848 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 907
QY 301 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 360
DB 908 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 967
QY 361 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 420
DB 968 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1027
QY 421 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 480
DB 1028 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1087
QY 481 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 540
DB 1088 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1147
QY 541 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 600
DB 1148 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1207
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DB 1208 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1267
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QY 721 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 780
DB 1328 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1387
QY 781 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 840
DB 1388 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1447
QY 841 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 900
DB 1448 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1507
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DB 1628 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1687
QY 1080 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1139
DB 1688 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1747
QY 1140 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1199
DB 1748 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATGATATG 1807

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QY 1200 TGAATTTTACAGGATGGGGTCCCATTTATATATTTACAAATTCACATTAACAACAAGCC 1259
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QY 1260 GTCCCCCGTCCGCGCAGTTTATTTTAAACATAGCGTGGATCTCCACGCGAATCTCGGCT 1319
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QY 1440 AGACTTAAAGCACAGACGATGCCACCAACCAACAGTGTGCCGACCAAGGCGGTGGCGTA 1499
Db 2048 AGACTTAAAGCACAGACGATGCCACCAACCAACAGTGTGCCGACCAAGGCGGTGGCGTGA 2107
QY 1500 GGGTATGTCTCTGAAAAATAGACTCGAGAAATGGGGTCCGACCGCTGACAGCAATGGAAGA 1558
Db 2108 GGGTATGTCTCTGAAAAAGACTCGGGGAGGGGCTTGACCCGCTGAGAGCAATTTGGAAGA 2167
QY 1560 CTTAAGCAGCGCGCAGAAAGAACGACGAGCACTGATGTTGTGTTCTGATTAAGATCA 1619
Db 2168 CTTAAGCAGCGCGCAGAAAGAAATGACGAGCACTGATGTTGTGTTCTGATTAAGATCA 2227
QY 1620 GAGGTAACTCCCGTTCGCGTCTGTAAACGGTGAAGGGCAGTGTAGTCTGAGCAAGTACTC 1679
Db 2228 GAGGTAACTCCCGTTCGCGTCTGTAAACGGTGAAGGGCAGTGTAGTCTGAGCAAGTACTC 2287
QY 1680 GTTCTGTCGCGCGCGCCGACACGACATATATAGCTGACAGACTTAACGAGCTGTCTTCC 1739
Db 2288 GTTCTGTCGCGCGCGCCGACACGACATATATAGCTGACAGACTTAACGAGCTGTCTTCC 2347
QY 1740 ATGGGATCTTTTCTCTCAGTCAACCGTCTT 1767
Db 2348 ATGGGATCTTTTCTCTCAGTCAACCGTCTT 2375

RESULT 4
US-08-899-575-170/c
Sequence 170, Application US/08899575
Patent No. 5770440
GENERAL INFORMATION:
APPLICANT: Burton, Dennis R
APPLICANT: Barbas, Carlos F
APPLICANT: Lerner, Richard A
TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
NUMBER OF SEQUENCES: 170
CORRESPONDENCE ADDRESS:
ADDRESS: The Scripps Research Institute, Office of
ADDRESS: Patent Counsel
STREET: 10666 No. 5770440th Torrey Pines Road, Suite 220,
STREET: Mail Drop Tpc8
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/899,575
FILING DATE: 24-JUL-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/276,852

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1      FILING DATE: 18-JUL-1994
2      APPLICATION NUMBER: US 08/178,302
3      FILING DATE: 30-SEP-1993
4      PRIOR APPLICATION DATA:
5      APPLICATION NUMBER: US 07/954,148
6      FILING DATE: 30-SEP-1992
7      ATTORNEY/AGENT INFORMATION:
8      NAME: Fitting, Thomas
9      REGISTRATION NUMBER: 34,163
10     REFERENCE/DOCKET NUMBER: SCRL452P
11     TELECOMMUNICATION INFORMATION:
12     TELEPHONE: 619-554-2937
13     TELEFAX: 619-554-6312
14     INFORMATION FOR SEQ ID NO: 170:
15     SEQUENCE CHARACTERISTICS:
16     LENGTH: 13554 base pairs
17     TYPE: nucleic acid
18     STRANDEDNESS: double
19     TOPOLOGY: circular
20     MOLECULE TYPE: DNA (genomic)
21     US-08-899-575-170

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Query Match	95.9%;	Score 1695.2;	DB 1;	Length 13254;
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Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1.

QY	1	ATTGAGGGCTATATGCGCATGAGGCGCATCAACCGGSCACATGGCCAAATGCATATG	60
Db	12647	ATTGAGGGCTATATGCGCATGAGGCGCATCAACCGGSCACATGGCCAAATGCATATG	12588
QY	61	ATCTATACATTTGATGAATATTTGGCAATTAGCCATTTATATCATTTGATTATATGCAATA	120
Db	12587	ATCTATACATTTGATGAATATTTGGCAATTAGCCATTTATATCATTTGATTATATGCAATA	12528
QY	121	ATCAATATTGGCGTATTGGCCATTGCAATAGTTGTATCCGATACATATATATGACATTAT	180
Db	12527	ATCAATATTGGCGTATTGGCCATTGCAATAGTTGTATCCGATACATATATATGACATTAT	12466
QY	181	ATTGGCCCATGTCCAATATATGACCGCCATGTTGACATTGATTATTTAGCTATTTAATAAG	240
Db	12467	ATTGGCCCATGTCCAATATATGACCGCCATGTTGACATTGATTATTTAGCTATTTAATAAG	12408
QY	241	TATATCAATTAGGGGGTCAATTATAGTTCAATACCCATATATGAGTCCGCGTTACATACCT	300
Db	12407	TATATCAATTAGGGGGTCAATTATAGTTCAATACCCATATATGAGTCCGCGTTACATACCT	12348
QY	301	ACGGTAAATGGCCCGCGCTGAGCTACCGGCCCAACGACCCCGCCCATTTGACGTCAATAATG	360
Db	12347	ACGGTAAATGGCCCGCGCTGAGCTACCGGCCCAACGACCCCGCCCATTTGACGTCAATAATG	12288
QY	361	ACGTATGTTCCATATGTAACGCCCAATATGAGATCTTTCCATTGACGTCAATGGGTGAGTAT	420
Db	12287	ACGTATGTTCCATATGTAACGCCCAATATGAGATCTTTCCATTGACGTCAATGGGTGAGTAT	12228
QY	421	TTTAGGTAATCTGCCCATTTGGAGATACATCAAGGTATCATATGTGCAATGCGGCCCT	480
Db	12227	TTTAGGTAATCTGCCCATTTGGAGATACATCAAGGTATCATATGTGCAATGCGGCCCT	12166
QY	481	ATTGACGTCAATGACGGTAAATGGCCCGCGCTGGCATTAATGCCAGTACATGACCTTACGG	540
Db	12167	ATTGACGTCAATGACGGTAAATGGCCCGCGCTGGCATTAATGCCAGTACATGACCTTACGG	12108
QY	541	GACTTTCTATCTGGGCAATACATCTACGATTAATGATGGCTATTAACAATGGTGAATCGG	600
Db	12107	GACTTTCTATCTGGGCAATACATCTACGATTAATGATGGCTATTAACAATGGTGAATCGG	12048
QY	601	TTTTGGCAGTACATCAATGGGCGGTGATATACGGTTGATCTCAACGGGGAATTTCCAGTCTC	660
Db	12047	TTTTGGCAGTACATCAATGGGCGGTGATATACGGTTGATCTCAACGGGGAATTTCCAGTCTC	11988
QY	661	CACCCCATTTGACGTCAATGGGAGTTGTTTGGCACCAAAATCAACGGGACTTTCCAAA	720
Db	11987	CACCCCATTTGACGTCAATGGGAGTTGTTTGGCACCAAAATCAACGGGACTTTCCAAA	11928

OY	721	IGTGTAAATAACCCCGCCCGCTTGAACGAAATGGCGCGTATGGCGTATGACGTATGGAGATC	780
Db	11927	TGTGTATCAAACTCCGCCCAATTACCGCAATGGGCGGTATGGCGTATGACGTATGGAGATC	11866
OY	781	TATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCTCGTGAAGCGCATCCAGCTGT	840
Db	11867	TATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCTCGTGAAGCGCATCCAGCTGT	11808
OY	841	TTTGAACCTCCATPAAAGACACCGGAGCCGATCCAGCCTCCGCGCGCGGAAACGGTCAATT	900
Db	11807	TTTGAACCTCCATPAAAGACACCGGAGCCGATCCAGCCTCCGCGCGCGGAAACGGTCAATT	11748
OY	901	GGAACGCGGGATATCCCGCGTGCACAAAGTAGACGTAAAGTACCGCTAATAGACTCTATAGGAC	960
Db	11747	GGAACGCGGGATATCCCGCGTGCACAAAGTAGACGTAAAGTACCGCTAATAGACTCTATAGGAC	11688
OY	961	ACCCCTTTGGC-TCTTATGACATGCTAATCTGTTTGGCTTTGGGCGCTAATACACCCCGC	1019
Db	11687	ACCCCTTTGGCTCTTATGACATGCTAATCTGTTTGGCTTTGGGCGCTAATACACCCCGC	11628
OY	1020	TTCCCTATGCTATPAGGATAGTATPAGTATAGCCTAATAGCGATGGGTTATTGACATTAAT	1079
Db	11627	TTCCCTATGCTATPAGGATAGTATPAGTATAGCCTAATAGCTATGGGTATATTGACATTAAT	11566
OY	1080	TGACCACTCCCTAATGGTGACGATCTTTCATTAATTAATCAATAATGATGCTCTTTGC	1139
Db	11567	TGACCACTCCCTAATGGTGACGATCTTTCATTAATTAATCAATAATGATGCTCTTTGC	11508
OY	1140	CACAACTATCTCTATGGCTATAGCCAAATCTCTGCTCCAGAGACTGACACGCAATC	1199
Db	11507	CACAACTCTCTTATATGGCTATPAGCAATACATGCTCTCCAGAGACTGACACGCAATC	11448
OY	1200	TGTAATTTTACAGATGGGTCCTCATTTATTTATTAACAATTCACATATACAACAACGCG	1259
Db	11447	TGTAATTTTACAGATGGGTCCTCATTTATTTATTAACAATTCACATATACAACAACGCG	11388
OY	1260	GTCCCCCGTCGCCGAGTTTATTAATAATAGCGTGGATCTCCACGCGAATCTCGGCT	1319
Db	11387	GTCCCCCGTCGCCGAGTTTATTAATAATAGCGTGGATCTCCACGCGAATCTCGGCT	11328
OY	1320	ACGTGTTCCGGACATGGGCTCTTCTCCGGATAGCGGTGGGCTTCCACATCCGAGCCTCG	1379
Db	11327	ACGTGTTCCGGACATGGGCTCTTCTCCGGATAGCGGTGGGCTTCTACATCCGAGCCTCG	11268
OY	1380	TCCCATGCTCCAGCGACTAATGATGCTCGGCACTCTCTGCTCCCAACATGAGAGGCT	1439
Db	11267	TCCCATGCTCCAGCGACTAATGATGCTCGGCACTCTCTGCTCCCAACATGAGAGGCT	11208
OY	1440	AGACTTAAAGGACACACAGATGATGCCACACACAGATGTGCCGACAAGACCGGAGGAT	1499
Db	11207	AGACTTAAAGGACACACAGATGATGCCACACACAGATGTGCCGACAAGACCGGAGGAT	11148
OY	1500	GGGATATGTCATGAATAATGAGCTCGAGATCGGAGCTCGACCGCTGACGAGATGGAAGA	1559
Db	11147	GGGATATGTCATGAATAATGAGCTCGGAGAGGAGCTTGCACCGCTGACGATTTGGAAGA	11088
OY	1560	CTTAAAGCAGCGGACAGAAAGAACGACGACGCTGATGTGTGTTCTGATTAAGTCA	1619
Db	11087	CTTAAAGCAGCGGACAGAAAGAACGACGACGCTGATGTGTGTTCTGATTAAGTCA	11028
OY	1620	GAGGTAATCTCCGTTGCGGTGCTTTAATAGGTGAGGAGCGATGATGCTGACAGATCACTC	1679
Db	11027	GAGGTAATCTCCGTTGCGGTGCTTTAATAGGTGAGGAGCGATGATGCTGACAGATCACTC	10968
OY	1680	GTTGCTGCGCGCGGCCACCAAGCATTAATAGCTGACAGACTAAACGACGCTGTTCTTTCC	1739
Db	10967	GTTGCTGCGCGCGGCCACCAAGCATTAATAGCTGACAGACTAAACGACGCTGTTCTTTCC	10908
OY	1740	ATGGGCTCTTTCTGCACTACCGTCTT	1767
Db	10907	ATGGGCTCTTTCTGCACTACCGTCTT	10880

```

RESULT 5
US-08-899-575-156
/ Sequence 156, Application US/08899575
/ Patent No. 5804440
/ GENERAL INFORMATION:
/ APPLICANT: Barton, Dennis R
/ APPLICANT: Barton, Carlos F
/ APPLICANT: Lerner, Richard A
/ TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
/ TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
/ NUMBER OF SEQUENCES: 170
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: The Scripps Research Institute, Office of
/ ADDRESSEE: Patent Counsel
/ STREET: 10666 No. 5804440th Torrey Pines Road, Suite 220,
/ STREET: Mail Drop TPC8
/ CITY: La Jolla
/ STATE: CA
/ COUNTRY: USA
/ ZIP: 92037
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patentin Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/899,575
/ FILING DATE: 24-JUL-1997
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/276,852
/ FILING DATE: 18-JUL-1994
/ APPLICATION NUMBER: US 08/178,302
/ FILING DATE: 30-SEP-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/954,148
/ FILING DATE: 30-SEP-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Fitting, Thomas
/ REGISTRATION NUMBER: 34,163
/ REFERENCE/DOCKET NUMBER: SCRI452P
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 619-554-2937
/ TELEFAX: 619-554-6312
/ INFORMATION FOR SEQ ID NO: 156:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 13254 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: double
/ TOPOLOGY: circular
/ MOLECULE TYPE: DNA (genomic)
US-08-899-575-156

Query Match 95.9%; Score 1695.2; DB 1; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

QY 1 ATATGAGCGTATATCGCGCATAGAGGGGACATCAAGCGCGACATGCGCAATGCATATCG 60
Db 608 ATATGAGCGTATATCGCGCATAGAGGGGACATCAAGCTGGGACATGGCGCAATGCATATCG 667
QY 61 ATCTATCATTTGGAATCAATATTTGGCAATTAGCCATATTAATTCATTGGTTATATAGATAA 120
Db 668 ATCTATCATTTGGAATCAATATTTGGCCATTAGCCATATTAATTCATTGGTTATATAGATAA 727
QY 121 ATCAATATTTGGCTATTTGGCCATTGCATACGTTGTATCCGATATCAATATATGATCAATTTAT 180
Db 728 ATCAATATTTGGCTATTTGGCCATTGCATACGTTGTATCCATATCAATATATGATCAATTTAT 787
QY 181 ATTGGCCCATGTCCAAATATGACCGCCCATGTGTGACATTTGATATGACTAGTATTAATAG 240
Db 788 ATTGGCCCATGTCCAAATATGACCGCCCATGTGTGACATTTGATATGACTAGTATTAATAG 847

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REFERENCE/DOCKET NUMBER: SCRI452P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-554-2937
 TELEFAX: 619-554-6312
 INFORMATION FOR SEQ. ID NO: 170:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 13254 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: circular
 MOLECULE TYPE: DNA (genomic)
 US-08-899-575-170

Query Match 95.9%; Score 1695.2; DB 1; Length 13254;
 Best Local Similarity 97.8%; Pred. No. 0;
 Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

QY 1 ATATGAGCTATATCGCCGATAGAGGACATCAAGCCGACATGCGCCATGATATG 60
 DB 12647 ATATGAGCTATATCGCCGATAGAGGACATCAAGCTGCGCCATGATATG 12588
 QY 61 ATCTATACATGTAATGAATTTGGCAATTAGCCATATTAATGTTATATAGATA 120
 DB 12587 ATCTATACATGTAATGAATTTGGCAATTAGCCATATTAATGTTATATAGATA 12528
 QY 121 ATCAATATTTGGCTATTGGCCATGATGATGATGATGATGATGATGATGAT 180
 DB 12527 ATCAATATTTGGCTATTGGCCATGATGATGATGATGATGATGATGATGAT 12468
 QY 181 ATTGGCCCATGTCGAATATGACCGCCATGTTGATGATGATGATGATGATGAT 240
 DB 12467 ATTGGCCCATGTCGAATATGACCGCCATGTTGATGATGATGATGATGATGAT 12408
 QY 241 TATATCAATTAAGGGGATGATGATGATGATGATGATGATGATGATGATGAT 300
 DB 12407 TATATCAATTAAGGGGATGATGATGATGATGATGATGATGATGATGATGAT 12348
 QY 301 ACGGTAAATGCGCGCTGGCTGACCGCCCAAGACCGCCCGCCATTTGACATATG 360
 DB 12347 ACGGTAAATGCGCGCTGGCTGACCGCCCAAGACCGCCCGCCATTTGACATATG 12288
 QY 361 ACGTATGTTCCATGTAATGCGCCATGATGATGATGATGATGATGATGATGAT 420
 DB 12287 ACGTATGTTCCATGTAATGCGCCATGATGATGATGATGATGATGATGATGAT 12228
 QY 421 TTAACGTAATGCGCCATGTTGCGATGATGATGATGATGATGATGATGATGAT 480
 DB 12227 TTAACGTAATGCGCCATGTTGCGATGATGATGATGATGATGATGATGATGAT 12168
 QY 481 ATTGACGTAATGACGCGTAATGCGCGCTGGCTGATGATGATGATGATGATGAT 540
 DB 12167 ATTGACGTAATGACGCGTAATGCGCGCTGGCTGATGATGATGATGATGATGAT 12108
 QY 541 GACTTCTCTACTTGGCAGTACATCTACGTAATGATGATGATGATGATGATGAT 600
 DB 12107 GACTTCTCTACTTGGCAGTACATCTACGTAATGATGATGATGATGATGATGAT 12048
 QY 601 TTTTGGCAATACATCAATGCGCGTGGATGATGATGATGATGATGATGATGAT 660
 DB 12047 TTTTGGCAATACATCAATGCGCGTGGATGATGATGATGATGATGATGATGAT 11988
 QY 661 CACCCCATGACGTCATGATGATGATGATGATGATGATGATGATGATGATGAT 720
 DB 11987 CACCCCATGACGTCATGATGATGATGATGATGATGATGATGATGATGATGAT 11928
 QY 721 TGTGTAATTAACCCCGCCCGCTTACGCAATGCGCGTATGATGATGATGATGAT 780
 DB 11927 TGTGTAATTAACCCCGCCCGCTTACGCAATGCGCGTATGATGATGATGATGAT 11868
 QY 781 TATATAAGAGAGAGCTGTTAGTAACCGTCAGATGCGCTGGAGAGCCATCCAGCTGT 840
 DB 11867 TATATAAGAGAGAGCTGTTAGTAACCGTCAGATGCGCTGGAGAGCCATCCAGCTGT 11808

QY 841 TTGTACCTTCATAGAAAGACCGGAGCCGATCCAGCTCTCGCGCGGAGACGGTGCAAT 900
 DB 11807 TTGTACCTTCATAGAAAGACCGGAGCCGATCCAGCTCTCGCGCGGAGAGGGTGCAAT 11748
 QY 901 GGAAGCGGATATCCCGCGGAGAGTACGTAATGATGATGATGATGATGATGATGAT 960
 DB 11747 GGAAGCGGATATCCCGCGGAGAGTACGTAATGATGATGATGATGATGATGATGAT 11688
 QY 961 ACCCTTTGGC-TCTTATGATGATGATGATGATGATGATGATGATGATGATGAT 1019
 DB 11687 ACCCTTTGGC-TCTTATGATGATGATGATGATGATGATGATGATGATGATGAT 11628
 QY 1020 TTCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1079
 DB 11627 TTCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 11568
 QY 1080 TGACCACTCCCTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1139
 DB 11567 TGACCACTCCCTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 11508
 QY 1140 CACAACATCTCTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1199
 DB 11507 CACAACATCTCTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 11448
 QY 1200 TGTATTTTACAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1259
 DB 11447 TGTATTTTACAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 11388
 QY 1260 GTCCCGCGCGCGGAGTTTATTAACATGATGATGATGATGATGATGATGATGAT 1319
 DB 11387 GTCCCGCGCGCGGAGTTTATTAACATGATGATGATGATGATGATGATGATGAT 11328
 QY 1320 ACGTGTCCGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1379
 DB 11327 ACGTGTCCGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 11268
 QY 1380 TCCCATGCTCCAGGAGTATGATGATGATGATGATGATGATGATGATGATGATGAT 1439
 DB 11267 TCCCATGCTCCAGGAGTATGATGATGATGATGATGATGATGATGATGATGATGAT 11208
 QY 1440 AAGCTTAAGGACAGACATGATGATGATGATGATGATGATGATGATGATGATGAT 1499
 DB 11207 AAGCTTAAGGACAGACATGATGATGATGATGATGATGATGATGATGATGATGAT 11148
 QY 1500 GGGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1559
 DB 11147 GGGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 11088
 QY 1560 CTTAAGGACGCGGAGAAAGACAGGACGATGATGATGATGATGATGATGATGAT 1619
 DB 11087 CTTAAGGACGCGGAGAAAGACAGGACGATGATGATGATGATGATGATGATGAT 11028
 QY 1620 GAGGTATCTCCGTTGCGGTGATGATGATGATGATGATGATGATGATGATGAT 1679
 DB 11027 GAGGTATCTCCGTTGCGGTGATGATGATGATGATGATGATGATGATGATGAT 10968
 QY 1680 GTTGCGCGCGCGGAGGACAGACATTAATGATGATGATGATGATGATGATGAT 1739
 DB 10967 GTTGCGCGCGCGGAGGACAGACATTAATGATGATGATGATGATGATGATGAT 10908
 QY 1740 ATGGGTCTTTTCTGACATGATGATGATGATGATGATGATGATGATGATGAT 1767
 DB 10907 ATGGGTCTTTTCTGACATGATGATGATGATGATGATGATGATGATGATGAT 10880

RESULT 7
 PCT-US95-08743-156
 ; Sequence 156, Application PC/RUS9508743
 ; GENERAL INFORMATION:
 ; APPLICANT: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
 ; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
 ; NUMBER OF SEQUENCES: 170

QY 1740 ATGGGCTTTTCTGACATCAGCTCCTT 1767
Db 10907 ATGGGCTTTTCTGACATCAGCTCCTT 10880

RESULT 9

US-08-760-615-7
Sequence 7, Application US/08760615
Patent No. 6200959
GENERAL INFORMATION:
APPLICANT: Haynes, Joel R
APPLICANT: Schmaljohn, Connie S
APPLICANT: Fuller, Deborah L
APPLICANT: Schmaljohn, Alan
APPLICANT: Jahrling, Peter B
TITLE OF INVENTION: GENETIC INDUCTION OF ANTI-VIRAL IMMUNE
TITLE OF INVENTION: RESPONSE AND GENETIC VACCINE FOR FILOVIRUS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Quarles & Brady
STREET: 1 South Pinckney Street
CITY: Madison
STATE: WI
COUNTRY: US
ZIP: 53703
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/760,615
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Berson, Bennett J
REGISTRATION NUMBER: 37094
REFERENCE/DOCKET NUMBER: 110229, 91241
TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000
TELEFAX: 608-251-9166
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 4326 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Expression vector
IMMEDIATE SOURCE:
CLONE: pMRG7077
FEATURE:
NAME/KEY: promoter
LOCATION: 1250..2062
FEATURE:
NAME/KEY: intron
LOCATION: 2063..2887
OTHER INFORMATION: /function= "Human Cytomegalovirus
FEATURE:
NAME/KEY: polyA site
LOCATION: 2912..3314
FEATURE:
NAME/KEY: CDS
LOCATION: complement (299..1114)
US-08-760-615-7

Query Match 91.7%; Score 1620.6; DB 3; Length 4326;
Best Local Similarity 99.1%; Pred. No. 0;
Matches 1629; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 123 CATATTTGGCTATTGGCCATTGGCATACGTTGATCCGATCATTAATATGATATTATAT 182
Db 1255 CATATTTGGCTATTGGCCATTGGCATACGTTGATCCGATCATTAATATGATATTATAT 1314
QY 189 TGGCCCATGTCATATGACCGGCGCATGTTGATGATGATATGATGATGATGATGATGAT 242
Db 1315 TGGCTCATGTCATATGACCGGCGCATGTTGATGATGATGATGATGATGATGATGATGAT 1374
QY 243 ATCAATTAACGGGGGCTATTAGTTCAATAGCCATATATGAGTTCCGCTTACATTAATCTTAC 302
Db 1375 ATCAATTAACGGGGGCTATTAGTTCAATAGCCATATATGAGTTCCGCTTACATTAATCTTAC 1434
QY 303 GGTAAATGSCCCGCTGCTGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATATGAC 362
Db 1435 GGTAAATGSCCCGCTGCTGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATATGAC 1494
QY 363 GATATGTCCTCATATGATGACCGCAATAGGACCTTTCATTAAGTCATAGGTTGAGATATT 422
Db 1495 GATATGTCCTCATATGATGACCGCAATAGGACCTTTCATTAAGTCATAGGTTGAGATATT 1554
QY 423 ACGGTAAATGSCCACTTGGCAGTACATCAATGATATCATATGCAAGTCCGCCCCCTAT 482
Db 1555 ACGGTAAATGSCCACTTGGCAGTACATCAATGATATCATATGCAAGTCCGCCCCCTAT 1614
QY 483 TGAACGTAATGACGGTAAATGSCCGCTGCTGCTGATATGCTTACATGATCCTTACGGGA 542
Db 1615 TGAACGTAATGACGGTAAATGSCCGCTGCTGCTGATATGCTTACATGATCCTTACGGGA 1674
QY 543 CTTTCTTATTGGCAGTACATCAATGATATGATGATGATGATGATGATGATGATGATGAT 602
Db 1675 CTTTCTTATTGGCAGTACATCAATGATATGATGATGATGATGATGATGATGATGATGAT 1734
QY 603 TTGGCAGTACATCAATGAGCGGTGATGATGATGATGATGATGATGATGATGATGATGAT 662
Db 1735 TTGGCAGTACATCAATGAGCGGTGATGATGATGATGATGATGATGATGATGATGATGAT 1794
QY 663 CCCCATTTGACGTCATATGAGGATTTGTTTGGACCAAAATCAACGGGACTTTCCAAATG 722
Db 1795 CCCCATTTGACGTCATATGAGGATTTGTTTGGACCAAAATCAACGGGACTTTCCAAATG 1854
QY 723 TCGTATTAATACCCCGCCGCTTGAACGCAATGAGCGGTGATGATGATGATGATGATGAT 782
Db 1855 TCGTATTAATACCCCGCCGCTTGAACGCAATGAGCGGTGATGATGATGATGATGATGAT 1914
QY 783 TATTAAGCAGAGCTCGTTTATGTAACCGTCAGATCGCTGGAAGCGCATGCAAGCTGTT 842
Db 1915 TATTAAGCAGAGCTCGTTTATGTAACCGTCAGATCGCTGGAAGCGCATGCAAGCTGTT 1974
QY 843 TGAACCTCATATGAGACACCGGAGACGATCCAGCTCCGCGCGGGAACGGTGTGATTGG 902
Db 1975 TGAACCTCATATGAGACACCGGAGACGATCCAGCTCCGCGCGGGAACGGTGTGATTGG 2034
QY 903 AAGCGGATTTCCCGCTGTCGAAGTGAAGTAAAGTACCGCTTATAGCTTATAGGCACAC 962
Db 2035 AAGCGGATTTCCCGCTGTCGAAGTGAAGTAAAGTACCGCTTATAGCTTATAGGCACAC 2094
QY 963 CCCTTTGGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1022
Db 2095 CCCTTTGGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2154
QY 1023 CTTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1082
Db 2155 CTTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2214
QY 1083 CCACTCCCTATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1142
Db 2215 CCACTCCCTATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2274
QY 1143 AACTATCTATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1202
Db 2275 AACTATCTATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2334
QY 1203 ATTTTACAGATGAGGATCCCATTTATTTATTAACAATTCACATATTAACAACAGCCGCTC 1262

DB 2335 ATTTTACAGATGGGGGCTTATTTATTTACAAATTCACATATCAACAAAGCGCTC 2394
QY 1263 CCCCCTCCCGCAGTTTATTTATTAACAATAGCGTGGAGATCTCCAGCAATCTCGGGTACG 1322
DB 2395 CCCCCTCCCGCAGTTTATTTATTAACAATAGCGTGGAGATCTCCAGCAATCTCGGGTACG 2454
QY 1323 TGTTCGGAGACATGGGCTTCTTCGGTAGCGGTGGGCTTCCACATCCGAGCCCTGTGTC 1382
DB 2455 TGTTCGGAGACATGGGCTTCTTCGGTAGCGGTGGGCTTCCACATCCGAGCCCTGTGTC 2514
QY 1383 CATGCCCTCCAGCGCTCATGTGCTCGGAGCTCTTCTGCTCCCAACAGTGGAGCCAGA 1442
DB 2515 CATGCCCTCCAGCGCTCATGTGCTCGGAGCTCTTCTGCTCCCAACAGTGGAGCCAGA 2574
QY 1443 CTTAGGACAGCAGATGCGCCACACACACAGTGCAGCAAGGCCGTGGCGGTAGGG 1502
DB 2575 CTTAGGACAGCAGATGCGCCACACACACAGTGCAGCAAGGCCGTGGCGGTAGGG 2634
QY 1503 TATGTGTCTGAAATGAGCTCGAGATCGGGCTCGCAACCGCTGACGAGATGGAAGATT 1562
DB 2635 TATGTGTCTGAAATGAGCTCGAGATCGGGCTCGCAACCGCTGACGAGATGGAAGATT 2694
QY 1563 AAGGACGCGGACAGAAAGAGACGCGAGCTGAGTTGTGTCTGATTAAGACTCAGAG 1622
DB 2695 AAGGACGCGGACAGAAAGAGAGAGCAGCGAGCTGAGTTGTGTCTGATTAAGACTCAGAG 2754
QY 1623 GTAACTCCCGTTGGGGGCTGTTAAAGGTGGAGGCGAGTGAAGCTGAGAGTCTGTT 1682
DB 2755 GTAACTCCCGTTGGGGGCTGTTAAAGGTGGAGGCGAGTGAAGCTGAGAGTCTGTT 2814
QY 1683 GCTGCGCGCGCGCGCACACAGACATTAATAGCTGACAGACTGTTCTTTCCATG 1742
DB 2815 GCTGCGCGCGCGCGCACACAGACATTAATAGCTGACAGACTGTTCTTTCCATG 2874
QY 1743 GGTCTTTTTCGACGTCAACCGTCC 1765
DB 2875 GGTCTTTTTCGACGTCAACCGTCC 2897

RESULT 10
US-09-554-337-1
; Sequence 1, Application US/09554337
; Patent No. 6475780
; GENERAL INFORMATION:
; APPLICANT: Parrington, Mark
; APPLICANT: Li, Xiaomao
; APPLICANT: Klein, Michel H.
; TITLE OF INVENTION: ALPHAVIRUS VECTORS FOR PARAMYXOVIRUS VACCINES
; FILE REFERENCE: 1038-1042 MIS
; CURRENT APPLICATION NUMBER: US/09/554,337
; CURRENT FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/065,791
; PRIOR FILING DATE: 1997-11-14
; PRIOR APPLICATION NUMBER: PCT/CA98/01064
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 15538
; TYPE: DNA
; ORGANISM: respiratory syncytial virus
US-09-554-337-1

Query Match 90.0%; Score 1590.6; DB 4; Length 15538;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 1605; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 125 ATATGGCTATGGCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 184
DB 234 AGATGGCTATGGCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 293
QY 185 GCCCAGTCCAAATATGACCGCATGTTGACATGATGATGATGATGATGATGATGATGAT 244

DB 294 GCTCATGTCCAACTTACCGCATGTTGACATGATGATGATGATGATGATGATGATGAT 353
QY 245 CAATTAGGGGGTCAATTAGTTACATAGCCCAATATATGAGATTCGCGCTTACATTAACG 304
DB 354 CAATTAGGGGGTCAATTAGTTACATAGCCCAATATATGAGATTCGCGCTTACATTAACG 413
QY 305 TAAATGGCCCGCTGAGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATATAGCT 364
DB 414 TAAATGGCCCGCTGAGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATATAGCT 473
QY 365 ATGTTCCCATATGAGGACCAATATGAGGACCTTTCATGAGTCAATGGGAGTATTTAC 424
DB 474 ATGTTCCCATATGAGGACCAATATGAGGACCTTTCATGAGTCAATGGGAGTATTTAC 533
QY 425 GGTAACTCCCACTTGGGAGTACATCAAGTATATATGCAAGTCCGCCCTATTG 484
DB 534 GGTAACTCCCACTTGGGAGTACATCAAGTATATATGCAAGTCCGCCCTATTG 593
QY 485 ACCTCAATGACGGTAAATGGCCCGCTGACATTTATGCGCATGATGACCTTACGGGACT 544
DB 594 ACCTCAATGACGGTAAATGGCCCGCTGACATTTATGCGCATGATGACCTTACGGGACT 653
QY 545 TTCTTACTTGGCAGTACATCTACGTATTTAGTATGCTATTTACATGATGATGATGATG 604
DB 654 TTCTTACTTGGCAGTACATCTACGTATTTAGTATGCTATTTACATGATGATGATGATG 713
QY 605 GGCAGTACATCAATGGGGGCTGATGACGGTTGACTCAGCGGGAATTTCCAGCTCCACC 664
DB 714 GGCAGTACATCAATGGGGGCTGATGACGGTTGACTCAGCGGGAATTTCCAGCTCCACC 773
QY 665 CCATTAGCGTCAATGGGATTTGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTC 724
DB 774 CCATTAGCGTCAATGGGATTTGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTC 833
QY 725 GTTAATACCCCGCCCGCTTGAACGCAATGGGGGTATAGGGGTATAGGGGTATAGGGGT 784
DB 834 GTTAATACCCCGCCCGCTTGAACGCAATGGGGGTATAGGGGTATAGGGGTATAGGGGT 893
QY 785 TAAAGAGCTGCTTATGATGAAACCGTCAGATGCGCTGAGAGCGCCATCCAGCTGTTTG 844
DB 894 TAAAGAGCTGCTTATGATGAAACCGTCAGATGCGCTGAGAGCGCCATCCAGCTGTTTG 953
QY 845 ACCTCCATGAAAGACACCGGAGCCGATCCAGCTCCGCGCGGGAACGGTCAATTGAA 904
DB 954 ACCTCCATGAAAGACACCGGAGCCGATCCAGCTCCGCGCGGGAACGGTCAATTGAA 1013
QY 905 CCGGATTTCCCGGTGCAAGAGTACGTAAAGTACCGCTATAGCTCTATAGCACACCC 964
DB 1014 CCGGATTTCCCGGTGCAAGAGTACGTAAAGTACCGCTATAGCTCTATAGCACACCC 1073
QY 965 CTTTGGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1024
DB 1074 CTTTGGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1133
QY 1025 TATGCTATAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1084
DB 1134 TATGCTATAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1193
QY 1085 ACTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1144
DB 1194 ACTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1253
QY 1145 CTATCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1204
DB 1254 CTATCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1313
QY 1205 TTTTACAGATGAGGATCCCATTTATTTATTAACAATTCACATATACAAACGCGCTCC 1264
DB 1314 TTTTACAGATGAGGATCCCATTTATTTATTAACAATTCACATATACAAACGCGCTCC 1373
QY 1265 CCGTCCCGCAGTTTATTTAAACATAGCGTGGATCTCCAGCGAATCTCGGGATACGTC 1324

Db	1374	CCGGGCCCGCAGTTTTTATTAAACATAGCGTGGGATCTCCACGCGAACTCGGGNACGTG	1433
QY	1325	TTCCGGACATGGGGCTCTTCGCGGTAGGGGTGGGGCTTCCATTCGAGCCCTGGTCCCA	1384
Db	1434	TTCCGGACATGGGCTCTTCGCGGTAGGGGCGAGCTTCCATTCGAGCCCTGGTCCCA	1493
QY	1385	TGCGCTCAGCGACTCATGTGCGCTCGCGAGCTCCTTGCTCCCAAAGTGGAGGCGAGACT	1444
Db	1494	TGCGCTCAGCGGCTCATGTGCGCTCGCGAGCTCCTTGCTCCCAAAGTGGAGGCGAGACT	1553
QY	1445	TAGGCACAGCACGATGCCACACACACCAAGTGTGCGGCACAAAGGCCGTGGCGGTAGGGTA	1504
Db	1554	TAGGCACAGCACCAATGCCACACACCAAGTGTGCGGCACAAAGGCCGTGGCGGTAGGGTA	1613
QY	1505	TGTGTCTGAATAATAGCTCGGAGATCGGGCTCGCACCGCTAGACGAGATGGAAAGACTTAA	1564
Db	1614	TGTGTCTGAATAATAGAGCTGGAAGATGGGGCTCGCACCGCTAGACGAGATGGAAAGACTTAA	1673
QY	1565	GGCAGCGCGCAGAAAGACGCGAGCGACTGAGTTGTTGTTCTGATTAAGAGTCAGAGCT	1624
Db	1674	GGCAGCGCGCAGAAAGATGCGAGCGACTGAGTTGTTCTGATTAAGAGTCAGAGCT	1733
QY	1625	AACCTCCGTTGCGGGTGGTTAAAGGTGGAAGGGCAGGTATGTCGAGAGAACTCGTTGC	1684
Db	1734	AACCTCCGTTGCGGGTGGTTAAAGGTGGAAGGGCAGGTATGTCGAGAGAACTCGTTGC	1793
QY	1685	TGCCGCGCGCCACACAGACATAATAGCTGACAGACTAAAGGACTGTTCTTTCCATGGG	1744
Db	1794	TGCCGCGCGCCACACAGACATAATAGCTGACAGACTAAAGGACTGTTCTTTCCATGGG	1853
QY	1745	TCTTTTCTG 1753	
Db	1854	TCTTTTCTG 1862	

RESULT 11
US-08-345-913-1
Sequence 1, Application US/08345913
Patent No. 5641665
GENERAL INFORMATION:
APPLICANT: Hobart, Peter
APPLICANT: Parker, Suzanne
APPLICANT: Margalith, Michal
APPLICANT: Kharitbi, Shitri
TITLE OF INVENTION: PLASMIDS SUITABLE FOR IL-2 EXPRESSION
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe, Martens, Olson and Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: CA
COUNTRY: USA
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/345,913
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Ways Vansko, Nancy
REGISTRATION NUMBER: 36,298
REFERENCE/DOCKET NUMBER: VICAL 043A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-235-8550
TELEFAX: 619-235-0176
TELEX:

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? INFORMATION FOR SEQ ID NO: 1
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? SEQUENCE CHARACTERISTICS:
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?     LENGTH: 428 base pairs
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?     TYPE: nucleic acid
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?     STRANDEDNESS: single
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?     TOPOLOGY: linear
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?     MOLECULE TYPE: cDNA
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?     ANTI-SENSE: NO
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?     FRAGMENT TYPE:
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?     ORIGINAL SOURCE:
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?     FEATURE:
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?     NAME/KEY: Coding Sequence
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?     LOCATION: 1689...2159
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?     OTHER INFORMATION:
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US-08-345-913-1

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Query Match	89.5%;	Score 1581;	DB 1;	Length 4928;
Best Local Similarity	99.0%;	Pred. No. 0;		
Matches 1612;	Conservative	0;	Mismatches 15;	Indels 2;
			Gaps	2

QY	140	CATTGCATACGTTGATCCGGATCATATAATGTCATTAATGAGGCCATGTCAAAT	199
Db	1	CATTGCATCGTGTATCTATATCATATAATGTCATTAATGAGGCCATGTCAAAT	60
QY	200	GACCGCATGTTGCATTGATTATGACCTAGTATTAAATAGTAATCAATTACGGGGTCAT	259
Db	61	GACCGCATGTTGATCATTTGATTATGACCTAGTATTAAATAGTAATCAATTACGGGGTCAT	120
QY	260	TAGTTTCATAGCCCAATATAGGAGTTCCGGCTTACATACTTAACGTAAATGGCCCGCTG	319
Db	121	TAGTTTCATAGCCCAATATAGGAGTTCCGGCTTACATACTTAACGTAAATGGCCCGCTG	180
QY	320	GCTACACGCCCAAGACGCCCGCCCATTTGACGTCAATATAGCATATGCTTCCCATAGTAA	379
Db	181	GCTACACGCCCAAGACGCCCGCCCATTTGACGTCAATATAGCATATGCTTCCCATAGTAA	240
QY	380	CGCCAAATAGGAGACTTTCCATTGACGTCAATAGGGTGGAGTATTTCACGTAACTGCCACT	439
Db	241	CGCCAAATAGGAGACTTTCCATTGACGTCAATAGGGTGGAGTATTTCACGTAACTGCCACT	300
QY	440	TGGCAGATACATCAAGTGTATATATGCCAACTCC-GCCCCCTATTGACGTCAATGACGT	498
Db	301	TGGCAGATACATCAAGTGTATATATGCCAACTCCGCCCTATTGACGTCAATGACGT	360
QY	499	AAATGGCCCGGCTGGCAATATAGCCACAGTACATGACCTTAACGGGACTTTCCCTTACGGCAG	558
Db	361	AAATGGCCCGGCTGGCAATATAGCCACAGTACATGACCTTAACGGGACTTTCCCTTACGGCAG	420
QY	559	TACATCTACGTATTAGTCATCGCTATTACATGCTGATGCGGTTTGGCAGTACATCAAT	618
Db	421	TACATCTACGTATTAGTCATCGCTATTACATGCTGATGCGGTTTGGCAGTACATCAAT	480
QY	619	GGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAACTTCACCCCATTTGACGTCAAT	678
Db	481	GGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAACTTCACCCCATTTGACGTCAAT	540
QY	679	GGGAGTTTGGTTTGGACACCAAAATCAAGGGGACTTCCAAAATGTCGTAAATACCCCGGC	738
Db	541	GGGAGTTTGGTTTGGACACCAAAATCAAGGGGACTTCCAAAATGTCGTAAATACCCCGGC	600
QY	739	CCGTTTGAACGCAATAGGGCGGTAGGCGGTGTACGGTGGAGGTCATATATAGCAGACGTG	798
Db	601	CCGTTTGAACGCAATAGGGCGGTAGGCGGTGTACGGTGGAGGTCATATATAGCAGACGTG	660
QY	799	TTAGTGAACGTCAGATGCGCTTGGAGACGCCATCCAGCTGTTTGAACCTCATATGAAGA	858
Db	661	TTAGTGAACGTCAGATGCGCTTGGAGACGCCATCCAGCTGTTTGAACCTCATATGAAGA	720
QY	859	CACCGGGACGATCCAGCTCCGGCGGCGGGAAACGATTCATTGGAAACCGGATTTCCCGGT	918
Db	721	CACCGGGACGATCCAGCTCCGGCGGCGGGAAACGATTCATTGGAAACCGGATTTCCCGGT	780

OY	919	GCMAAGATGACGTAAAGTACCGCCATATAGA	CTCTTAATAGCAACCCCTTGGCTTTTNG	978
Db	781	GCCAAAGATGACGTAAAGTACCGCCATATAGA	CTCTTAATAGCAACCCCTTGGCTTTTNG	840
OY	979	CATGCTATACTGTTTTTGGCTTTGGGGCCCTA	TACACCCCGCTTCTCTAATGCTAATAGTGA	1038
Db	841	CATGCTATACTGTTTTTGGCTTTGGGGCCCTA	TACACCCCGCTTCTCTAATGCTAATAGTGA	900
OY	1039	TGGTATACCTTAGCCCTATAGGCGGTGGTAT	TATGACCACTAATATGACACCTCCCTATAGT	1098
Db	901	TGGTATACCTTAGCCCTATAGGCGGTGGTAT	TATGACCACTAATATGACACCTCCCTATAGT	960
OY	1099	GACGATACCTTTCATTA	CTTAATCATATGAGCTCTTTGCCAACAATCTATCTAATGAC	1158
Db	961	GACGATACCTTTCATTA	CTTAATCATATGAGCTCTTTGCCAACAATCTAATGAC	1020
OY	1159	TATATGCCAATACTCTGTCTTCA	BAGACTGA CAGGACTCTGTATTTTAAAGATAGG	1218
Db	1021	TATATGCCAATACTCTGTCTTCA	BAGACTGA CAGGACTCTGTATTTTAAAGATAGG	1080
OY	1219	GTCCCATTTATATTA	TTTAAACAATTCACATATACAAACAGCGCGTCCCGCCGTCGCCAGT	1278
Db	1081	GTCCCATTTATATTA	TTTAAACAATTCACATATACAAACAGCGCGTCCCGCCGTCGCCAGT	1140
OY	1279	TTTATTTAAACATAGCGTGGGATCTTCA	CGCGAATCTCGGGTACGTGTTCCGACATGCGC	1338
Db	1141	TTTATTTAAACATAGCGTGGGATCTTCA	CGCGAATCTCGGGTACGTGTTCCGACATGCGC	1200
OY	1339	TCTTTCGCGGTAGCGGTGGGGCTTCCACAT	CCGAGCCCTGGTCCCATGCGCTCACAGACT	1398
Db	1201	TCTTTCGCGGTAGCGGTGGGGCTTCCACAT	CCGAGCCCTGGTCCCATGCGCTCACAGACT	1260
OY	1399	CATGTCGCTCGCGAGCTCTTTGCTCCAA	CAGTGGAGGCCAGACTTAAGGCA CAGCAGCA	1458
Db	1261	CATGTCGCTCGCGAGCTCTTTGCTCCAA	CAGTGGAGGCCAGACTTAAGGCA CAGCAGCA	1320
OY	1459	TGCCACACCA CACCA CAGTGTGCCGCA	CAAGCCGTGGCGGTAGGGTATGTCTGAAATG	1518
Db	1321	TGCCACACCA CACCA CAGTGTGCCGCA	CAAGCCGTGGCGGTAGGGTATGTCTGAAATG	1380
OY	1519	AGCTCGAGATCGGGCTCGCA	CCGCTGACGCAATTAAGGACGCGCAGAG	1578
Db	1381	AGCTCGAGATCGGGCTCGCA	CCGCTGACGCAATTAAGGACGCGCAGAG	1440
OY	1579	AAGACGCA GGCAGAGCTGATGTTGTGTCT	TATTAAGTCAAGAGTAATCCCTTTGGCGG	1638
Db	1441	AAGACGCA GGCAGAGCTGATGTTGTGTCT	TATTAAGTCAAGAGTAATCCCTTTGGCGG	1500
OY	1639	- TGCTGTAA CCGTGTAGAGGCA	GTATGTCTGAGAGTACTGTTGCTGCGCGCGGCC	1697
Db	1501	- TGCTGTAA CCGTGTAGAGGCA	GTATGTCTGAGAGTACTGTTGCTGCGCGCGGCC	1560
OY	1698	ACCAAGACATTAATAGCTGA	CAAGCTAA CCGACTGTTTCCATGGGCTTTTCTGCAGT	1758
Db	1561	ACCAAGACATTAATAGCTGA	CAAGCTAA CCGACTGTTTCCATGGGCTTTTCTGCAGT	1620
OY	1758	CACGCTCCT	1766	
Db	1621	CACGCTCCT	1629	

RESULT 12
US-08-818-562-1
Sequence 1, Application US/08818562
Patent No. 6147055
GENERAL INFORMATION:
APPLICANT: Hobart, Peter M.
APPLICANT: Margalith, Michal
APPLICANT: Parker, Suzanne E.
APPLICANT: Kharibi, Shiri
TITLE OR INVENTION: Plasmids Suitable for IL-2 Expression
FILE REFERENCE: 1530.008001
CURRENT APPLICATION NUMBER: US/08/818,562

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?  
? CURRENT FILING DATE: 1997-03-14  
? EARLIER APPLICATION NUMBER: US 08/345,913  
? EARLIER FILING DATE: 1994-11-28  
? NUMBER OF SEQ ID NOS: 3  
? SOFTWARE: PatentIn Ver. 2.0  
? SEQ ID NO 1  
? LENGTH: 4928  
?  
? TYPE: DNA  
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? ORGANISM: Homo sapiens  
?  
? FEATURE:  
? NAME/KEY: CDS  
? LOCATION: (1689)..(2159)  
?  
US-08-818-562-1
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Query Match	89.5%	Score 1581;	DB 3;	Length 4928;
Best Local Similarity	99.0%	Pred. No. 0;		
Matches 1612; Conservative	0;	Mismatches 15;	Indels 2;	Gaps 2;

Qy	14	CATTGCATACGTTGATCCGATCATATAATAGTACATTATATATGGCCATGTCAAAT	199
Db	1	CATTGCATACGTTGATCTATATCATATAATATGATCAATTATATGGCTATGTCAAAT	60
Qy	200	GACCGCATGTTGACATTGATTATTTGACTAGTTATTTATATGTAATCAATTACGGGGCTAT	259
Db	61	GACCGCATATGTCATTGATTATTTGACTAGTTATTTATATGTAATCAATTACGGGGCTAT	120
Qy	260	TAGTTCAATAGCCCAATATATGAGTTCCGCGTTACATAACTTACGGTAAATAGCCGCGCTG	319
Db	121	TAGTTCAATAGCCCAATATATGAGTTCCGCGTTACATAACTTACGGTAAATAGCCGCGCTG	180
Qy	320	GCTGACCGCCCAACGACCCCGCCCAATGACGTCAATATATGACGTATGTTCCCATAGTAA	379
Db	181	GCTGACCGCCCAACGACCCCGCCCAATGACGTCAATATATGACGTATGTTCCCATAGTAA	240
Qy	380	CGCCCATATAGGACCTTTCATTGACGTCAATGGGTGAGATTTTACGGTAAATCGGCCACT	439
Db	241	CGCCCATATAGGACCTTTCATTGACGTCAATGGGTGAGATTTTACGGTAAATCGGCCACT	300
Qy	440	TGGCAGTACATCAATGTATCATATATGCAAGTCC - GCCCCTTATGACGTCAATGACGT	498
Db	301	TGGCAGTACATCAATGTATCATATATGCAAGTCCGCGCCCTTATGACGTCAATGACGT	360
Qy	499	AAATGGCCCGCTGGCATTTATGCCAGTACATGACTTACGGGACCTTTCCTACTTGGCAG	558
Db	361	AAATGGCCCGCTGGCATTTATGCCAGTACATGACTTACGGGACCTTTCCTACTTGGCAG	420
Qy	559	TACATCTACGATTAATAGTATGCGATTAACAATGGTATGGGTTTGGCAGTACATCAAT	618
Db	421	TACATCTACGATTAATAGTATGCGATTAACAATGGTATGGGTTTGGCAGTACATCAAT	480
Qy	619	GGGCGGTGATAGCGTTTGAATCTCACGGGGGATTTCCAAAGTCTCCACCCCATTTGACGTCAAT	678
Db	481	GGGCGGTGATAGCGGTTTGAATCTCACGGGGATTTCCAAAGTCTCCACCCCATTTGACGTCAAT	540
Qy	679	GGGAGTTTGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTGTAATAACCCCGCC	738
Db	541	GGGAGTTTGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTGTAATAACCCCGCC	600
Qy	739	CGGTTGACGCAAAATGGGCGGTAGGCGGTACGCGGGGAGGCTATATTAACAGAGCTCGT	798
Db	601	CGGTTGACGCAAAATGGGCGGTAGGCGGTACGCGGGGAGGCTATATTAACAGAGCTCGT	660
Qy	799	TTATGTAAACCGTCAGATGCGCTGGAGACGCCATCAGCGTGTGTTTGACCTCCATAGAGA	858
Db	661	TTATGTAAACCGTCAGATGCGCTGGAGACGCCATCAGCGTGTGTTTGACCTCCATAGAGA	720
Qy	859	CACCGGAAACCAATCCAGCTCCGCGGCGGGAAACGTGCAATTGAAACGGGAAATTCGCCGT	918
Db	721	CACCGGAAACCAATCCAGCTCCGCGGCGGGAAACGTGCAATTGAAACGGGAAATTCGCCGT	780
Qy	919	GCCAAAGTAGACGTATAGTACGCGCTATATAGACTCTATATGGGACACCCCTTGGCTTATAG	978
Db	781	GCCAAAGTAGACGTATAGTACGCGCTATATAGACTCTATATGGGACACCCCTTGGCTTATAG	840

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QY 979 CATGCTAATCTGTTTGGCTTGGGCGCTATACACCCCGCTTCTTATGCTATAGTGA 1038
DB 841 CATGCTAATCTGTTTGGCTTGGGCGCTATACACCCCGCTTCTTATGCTATAGTGA 900
QY 1039 TGGTATAGCTTACCTATAGGCGGTGTTTATGACATATTTAGCACTCCCTATTGGT 1098
DB 901 TGGTATAGCTTACCTATAGGCGGTGTTTATGACATATTTAGCACTCCCTATTGGT 960
QY 1099 GACGATACCTTCCATTAATCAATACATAGGCTCTTGGCACTATCTATTTGGC 1158
DB 961 GACGATACCTTCCATTAATCAATACATAGGCTCTTGGCACTATCTATTTGGC 1020
QY 1159 TATATGCCAATACCTCTGCTCCCTCAGAGACTGACACGCACTCTGATTTTATCAGATGGG 1218
DB 1021 TATATGCCAATACCTCTGCTCCCTCAGAGACTGACACGCACTCTGATTTTATCAGATGGG 1080
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DB 1081 GTCCCACTTTATTTTATCAAAATTCATATACAAACGCGCTGCTCCCGTCCGCACTT 1140
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QY 1579 AAGACGAGGAGCTGATGTTGTTGTTGATTAAGTCAAGGTAAGTCCCGTTGGC 1638
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DB 1621 CACCGTCTT 1629

RESULT 13
US-09-628-445-1
; Sequence 1, Application US/09628445
; Patent No. 639588
; GENERAL INFORMATION:
; APPLICANT: Hobart, Peter M.
; APPLICANT: Margalith, Michael
; APPLICANT: Parker, Suzanne E.
; APPLICANT: Khachibi, Shlita
; TITLE OF INVENTION: Cancer Treatment Utilizing Plasmids Suitable for IL-2 Expression
; FILE REFERENCE: 1530.0080002
; CURRENT APPLICATION NUMBER: US/09/628,445
; CURRENT FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: US 08/818,562
; PRIOR FILING DATE: 1997-03-14

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; PRIOR APPLICATION NUMBER: US 08/345,913
; PRIOR FILING DATE: 1994-11-28
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 1
; LENGTH: 4928
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1689)..(2159)
US-09-628-445-1

Query Match      89.5%; Score 1581; DB 4; Length 4928;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 1612; Conservative 0; Mismatches 15; Indels 2; Gaps 2;

QY 140 CATGCTATGCTTGTATCGGTATCATATATGTATGATTTATGCGCATATAT 199
DB 1 CATGCTATGCTTGTATCGGTATCATATATGTATGATTTATGCGCATATAT 60
QY 200 GACCGCATGTTGACATTTGATTTGACAGTATTTAATAGTAATTAACGGGTCAT 259
DB 61 GACCGCATGTTGACATTTGATTTGACAGTATTTAATAGTAATTAACGGGTCAT 120
QY 260 TAGTTATAGCCCATATATAGAGTTCCGCTTACATACTTACGTAATGACCCGCTG 319
DB 121 TAGTTATAGCCCATATATAGAGTTCCGCTTACATACTTACGTAATGACCCGCTG 180
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DB 421 TACATCTAGTATTTGATATGCTATTTACATGATGAGTGGGTTTGGAGTAATCAT 480
QY 619 GGGCGGTATAGCGGTTTGAATCAAGGGAATTTCAAGTCTCCACCCCATGAGCTCAAT 678
DB 481 GGGCGGTATAGCGGTTTGAATCAAGGGAATTTCAAGTCTCCACCCCATGAGCTCAAT 540
QY 679 GGGAGTTTGTGTCACCAAAATCAACGGGACTTTCCAAAATGTCGTATTAACCCGCGC 738
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QY 739 CCGTTGACGCAATAGGCGGTAGCGGTGTAACGTTGGAGAGTCTATATTAAGAGAGTCT 798
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QY 799 TTAGTAACGTCAGATGCTCTGAGAGACGCAATCCACGCTGTTTGAACCTCATAGAGA 858
DB 661 TTAGTAACGTCAGATGCTCTGAGAGACGCAATCCACGCTGTTTGAACCTCATAGAGA 720
QY 859 CACCGGACCGATCCAGCTCTCGCGCGGGAACGCTGATTTGAAACGCGGATTTCCCGGT 918
DB 721 CACCGGACCGATCCAGCTCTCGCGCGGGAACGCTGATTTGAAACGCGGATTTCCCGGT 780
QY 919 GCCAAGAGAGTATAGTACCGCTATATAGCTTATAGGCAACCCCTTGGCTCTTAG 978
DB 781 GCCAAGAGAGTATAGTACCGCTATATAGCTTATAGGCAACCCCTTGGCTCTTAG 840

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QY 979 CATGCTACTGTTTGGCTGGGGCTATACACCCCGCTTCTATGCTATAGTGA 1038
 DB 841 CATGCTACTGTTTGGCTGGGGCTATACACCCCGCTTCTATGCTATAGTGA 900
 QY 1039 TGGTATGCTTACGCTTAGCGGGGTATGACCATATATGACCATCCCATATGCT 1098
 DB 901 TGGTATGCTTACGCTTAGCGGGGTATGACCATATATGACCATCCCATATGCT 960
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 DB 961 GAGCATCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1020
 QY 1159 TATATGCAATACT 1218
 DB 1021 TATATGCAATACT 1080
 QY 1219 GTCCCATTTTATTTTAAATTCATATACAAACGCGCTCCCGGCGCGGAGTT 1278
 DB 1081 GTCCCATTTTATTTTAAATTCATATACAAACGCGCTCCCGGCGCGGAGTT 1140
 QY 1279 TTTATTTAAATAGCTGAGGATCTCCACGCGAATCTCGGGTACGTGTTCCGACATGGC 1338
 DB 1141 TTTATTTAAATAGCTGAGGATCTCCACGCGAATCTCGGGTACGTGTTCCGACATGGC 1200
 QY 1339 TCTTCTCGGTAGCGGTGGGCTTCCACATCCGAGCCCTGCTCCATGCTCCAGGACT 1398
 DB 1201 TCTTCTCGGTAGCGGTGGGCTTCCACATCCGAGCCCTGCTCCATGCTCCAGGACT 1260
 QY 1399 CATGCTGCTCGGAGCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1458
 DB 1261 CATGCTGCTCGGAGCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1320
 QY 1459 TGCCACACCAACGAGTGTCCGACAAAGCCGCGGTAGGATGCTGTAATG 1518
 DB 1321 TGCCACACCAACGAGTGTCCGACAAAGCCGCGGTAGGATGCTGTAATG 1380
 QY 1519 AGCTCGGAGATCGGGCTCTGCAACGCTGACCGAGATGGAAGATTAAAGCAGCGGACAG 1578
 DB 1381 AGCTCGGAGATCGGGCTCTGCAACGCTGACCGAGATGGAAGATTAAAGCAGCGGACAG 1440
 QY 1579 AAGACGAGGACACTGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1638
 DB 1441 AAGATGAGGACACTGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1500
 QY 1639 -TGTGTTAAGCGGTGAGGAGGTAGTCTGAGCAGTACTGTTGTCGCGCGCGGCC 1697
 DB 1501 TTGCTGTTAAGCGGTGAGGAGGTAGTCTGAGCAGTACTGTTGTCGCGCGCGGCC 1560
 QY 1698 ACCAGACATATAGCTGACAGACTTAACGAGCTGTTCTTCTCAATGAGTCTTTCTGCACT 1757
 DB 1561 ACCAGACATATAGCTGACAGACTTAACGAGCTGTTCTTCTCAATGAGTCTTTCTGCACT 1620
 QY 1758 CACCGTCT 1766
 DB 1621 CACCGTCT 1629

RESULT 14
 US-09-340-798A-43
 Sequence 43, Application US/09340798A
 Patent No. 6534312
 GENERAL INFORMATION:

APPLICANT: SHIVER, JOHN W.
 LITU, MARGARET A.
 PERRY, HELEN C.
 DAVIES, MARY-ELLEN M.
 FRED, DANIEL C.
 TITLE OF INVENTION: VACCINES COMPRISING SYNTHETIC GENES
 NUMBER OF SEQUENCES: 53
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: J. MARK HAND - MERCK & CO., INC.
 STREET: 126 E. LINCOLN AVE., P.O. BOX 2000
 CITY: RAHWAY

STATE: NEW JERSEY
 COUNTRY: US
 ZIP: 07065-0907
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/340,798A
 FILING DATE: 28-Jun-1999
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/877,418
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: HAND, J. MARK
 REGISTRATION NUMBER: 36,545
 REFERENCE/DOCKET NUMBER: 19729Y
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 908-594-3905
 TELEFAX: 908-594-4720
 INFORMATION FOR SEQ ID NO: 43:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 3547 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: both
 MOLECULE TYPE: cDNA
 SEQUENCE DESCRIPTION: SEQ ID NO: 43:
 US-09-340-798A-43

Query Match 89.1%; Score 1574.4; DB 4; Length 3547;
 Best Local Similarity 97.7%; Pred. No. 0;
 Matches 1607; Conservative 0; Mismatches 36; Indels 1; Gaps 1;
 QY 125 ATATTGGCTATTGGCCATTGACATGCTGTATTCGATCATATATGATCATTTATTTG 184
 DB 2 ATATTGGCTATTGGCCATTGACATGCTGTATTCGATCATATATGATCATTTATTTG 61
 QY 185 GCCATGCTCAATATGACCGCCATGTTGACATTTATTTATTTATTTATTTATTTATTT 244
 DB 62 GCTCATGCTCAATATGACCGCCATGTTGACATTTATTTATTTATTTATTTATTTATTT 121
 QY 245 CAATTAGGGGATCATTTAGTTCAATAGCCCATATATGAGATTCCGCGTTACATTAACG 304
 DB 122 CAATTAGGGGATCATTTAGTTCAATAGCCCATATATGAGATTCCGCGTTACATTAACG 181
 QY 305 TAAATGCGCGCGCTGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATATGACGT 364
 DB 182 TAAATGCGCGCGCTGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATATGACGT 241
 QY 365 ATGTTCCCATATGTAAGCCCAATAGGACCTTTCCATTGAGCTCAATAGGAGTATTTAC 424
 DB 242 ATGTTCCCATATGTAAGCCCAATAGGACCTTTCCATTGAGCTCAATAGGAGTATTTAC 301
 QY 425 GGTAACTGCCCATTTGAGCAGTACATCAAGTGTATCATATGCAAGTCCGCCCTATTG 484
 DB 302 GGTAACTGCCCATTTGAGCAGTACATCAAGTGTATCATATGCAAGTCCGCCCTATTG 361
 QY 485 ACGTCAATAGCGTAATAGCGCGCGCTGACATTTATGCCAGTACATGACCTTAAGGAGCT 544
 DB 362 ACGTCAATAGCGTAATAGCGCGCGCTGACATTTATGCCAGTACATGACCTTAAGGAGCT 421
 QY 545 TTCTACTTGGGAGTACATCTACGATTATGATCATGCTATTTACATGATGATGCGGTTT 604
 DB 422 TTCTACTTGGGAGTACATCTACGATTATGATCATGCTATTTACATGATGATGCGGTTT 481
 QY 605 GGAGATACATCAATGAGGCGGTGATGCGGTTTGAATCAAGGAGATTTCAAGTCTCAC 664
 DB 482 GGAGATACATCAATGAGGCGGTGATGCGGTTTGAATCAAGGAGATTTCAAGTCTCAC 541
 QY 665 CCATTGACGTCAATGAGGAGTTGTTTGGACCAAAATCAACGGGACTTTCCAAATATGTC 724

Db	542	CCATTGACGTCAATGGGAGTTTGTTTTGGACCAAAATCAACGGGACTTTCCAAAATGTC	601
QY	725	GTAATTAACCCCGCCCGTTGACGCAAAATGGCGGTAAGCGGTGTAACGGTAGGCTTAATA	784
Db	602	GTAACAACCTCCGCCCCATTGACGCAAAATGGCGGTAAGCGGTGTAACGGTAGGCTTAATA	661
QY	785	TAACCAAGACGCTTAACTAGTGAACCGTCAATTCGCTGGAGACCGCATCCAGCTGTTTGG	844
Db	662	TAACCAAGACGCTTAACTAGTGAACCGTCAATTCGCTGGAGACCGCATCCAGCTGTTTGG	721
QY	845	ACCTTCATAGAAAGACACGGGACCGATCCACCTCCCGGGCCGGGAACGGTGCAATTGGAA	904
Db	722	ACCTTCATAGAAAGACACGGGACCGATCCACCTCCCGGGCCGGGAACGGTGCAATTGGAA	781
QY	905	CGCGGATTCGCCGTGCCAAGATGACGTAAAGTACCGCTAATAGACTTAATAGGACACCC	964
Db	782	CGCGGATTCGCCGTGCCAAGATGACGTAAAGTACCGCTAATAGACTTAATAGGACACCC	841
QY	965	CTTTGGGC-TCTTAATGCAATGCTTAATCTGTTTTTTGGCTTGGGGCTTAATACCCCGCTCC	1023
Db	842	CTTTGGCTCTTAAATGACATGCTAACTGTTTTTTGGCTTGGGGCTTAATACCCCGCTCC	901
QY	1024	TTATGCTAATAGTGTAGGTATAGCTATAGCTATAGCGGTGGGTTAATTACCAATTATGAC	1083
Db	902	TCAATGTAATAGTGTAGGTATAGCTATAGCTATAGGTGGGTTAATTACCAATTATGAC	961
QY	1084	CACCTCCCTAATTTGGTGAAGATACTTCCATTAATCATATCAATAGATGCTCTTTGCCACA	1143
Db	962	CACCTCCCTAATTTGGTGAAGATACTTCCATTAATCATATCAATAGATGCTCTTTGCCACA	1021
QY	1144	ACTATCTCATATTGGCTATATGCAATACTCTGTCTCTTCAAGAGACTGACAGGACTCTGTA	1203
Db	1022	ACTCTCTTATATTGGCTATATGCAATACACTGCTCTTCAAGAGACTGACAGGACTCTGTA	1081
QY	1204	TTTTTAACGATATGGGGTCCCATTTATTAATTACAATTCACATATATACAACGCGCTCC	1263
Db	1082	TTTTTAACGATATGGGGTCTCATTTATTAATTACAATTCACATATACAACGCGCTCC	1141
QY	1264	CCCGTGCCCGAGTTTTTATTAATAATATGCGTGGGATTCACAGCGGAATCTCGGGTAGT	1323
Db	1142	CCAGTGCCCGAGTTTTTATTAATAATATGCGGGAATTCACAGCGGAATCTCGGGTAGT	1201
QY	1324	GTTCCGAGCATATGGGCTCTTCTCCGGTAGCGGTGGGCTTTCACATCCGAGCCCTGCTCC	1383
Db	1202	GTTCCGAGCATATGGGCTCTTCTCCGGTAGCGGTGGGCTTTCACATCCGAGCCCTGCTCC	1261
QY	1384	ATGCTCTCCAGGACTCATATGTCGTCTCGGACGCTCTTGTCTCCCAATGAGAGGCAAC	1443
Db	1262	ATGCTCTCCAGGACTCATATGTCGTCTCGGACGCTCTTGTCTCTTAACATGAGAGGCAAC	1321
QY	1444	TTAGGCAACAGACGATGTCACACACACACAGTGTCCGCAACAAGGCCGTGGCGGTAGGAT	1503
Db	1322	TTAGGCAACAGACGATGTCACACACACACAGTGTCCGCAACAAGGCCGTGGCGGTAGGAT	1381
QY	1504	ATGTCGTGAATAATGAGCTCGGAGATCGGGCTCGCACCGCTGACCGACAGATGGAACATTA	1563
Db	1382	ATGTCGTGAATAATGAGCTCGGAGAGCGGGCTTGCACCGCTGACCGCATTTGGAAAGACTTA	1441
QY	1564	AGGCAACGGGCAAGAAAGAACGACGAGGACGTGATGTTGTCTTCTGATTAAGACTCAGAG	1622
Db	1442	AGGCAACGGGCAAGAAAGAACGACGAGGACGTGATGTTGTCTTCTGATTAAGACTCAGAG	1501
QY	1624	TAACTCCCGTGGCGGTGCTGTTAAAGGATGAGAGGAGGTATGATGACAGAGTACGTTG	1683
Db	1502	TAACTCCCGTGGCGGTGCTGTTAAAGGATGAGAGGAGGTATGATGATGACAGTACGTTG	1561
QY	1684	CTGCGGCGCGGCGCAACAGACATTAATAGCTGACAGACTAACCGGACTGTTCTTTCAATGG	1743
Db	1562	CTGCGGCGCGGCGCAACAGACATTAATAGCTGACAGACTAACCGGACTGTTCTTTCAATGG	1621
QY	1744	GTCCTTTCTGCAATACCGTCTTT1767	

	Db	1622 GTCTTTTCGAGTCAACGCCTT 1645
		RESULT 15
		US-09-340-798A-1
		: Sequence 1, Application US/09340798A
		: Patent No. 653412
		GENERAL INFORMATION:
		APPLICANT: SHIVER, JOHN W.
		LIU, MARGARET A.
		PERRY, HELEN C.
		DAVIES, MARY-ELLEN M.
		FREED, DANIEL C.
		TITLE OF INVENTION: VACCINES COMPRISING SYNTHETIC GENES
		NUMBER OF SEQUENCES: 53
		CORRESPONDENCE ADDRESS:
		ADDRESSEE: J. MARK HAND - MERCK & CO., INC.
		STREET: 126 E. LINCOLN AVE., P.O. BOX 2000
		CITY: RAHWAY
		STATE: NEW JERSEY
		COUNTRY: US
		ZIP: 07065-0907
		COMPUTER READABLE FORM:
		MEDIUM TYPE: Floppy disk
		OPERATING SYSTEM: PC-DOS/MS-DOS
		SOFTWARE: Patentin Release #1.0, Version #1.30
		CURRENT APPLICATION DATA:
		APPLICATION NUMBER: US/09/340,798A
		FILING DATE: 28-Jun-1999
		CLASSIFICATION: <Unknown>
		PRIOR APPLICATION DATA:
		APPLICATION NUMBER: US/08/877,418
		FILING DATE: <Unknown>
		ATTORNEY/AGENT INFORMATION:
		NAME: HAND, J. MARK
		REGISTRATION NUMBER: 36,545
		REFERENCE/DOCKET NUMBER: 19729Y
		TELECOMMUNICATION INFORMATION:
		TELEPHONE: 908-594-3905
		TELEFAX: 908-594-4720
		INFORMATION FOR SEQ ID NO: 1:
		SEQUENCE CHARACTERISTICS:
		LENGTH: 4864 base pairs
		TYPE: nucleic acid
		STRANDEDNESS: double
		TOPOLOGY: both
		MOLECULE TYPE: DNA (genomic)
		SEQUENCE DESCRIPTION: SEQ ID NO: 1:
		US-09-340-798A-1
		Query Match 89.0%; Score 1572.8; DB 4; Length 4864;
		Best Local Similarity 97.7%; Pred. No. 0;
		Matches 1606; Conservative 0; Mismatches 37; Indels 1; Gaps 1
Oy		125 ATATGGCTATTGGCATTCGATCGTAGTGTATCCGTAATCAATAATGATGACTTTATATTG 184
Dd		234 AGATTGGCTATTGGCATTCGATCGTAGTGTATCCATATCAATAATGATGACTTTATATTG 293
Oy		185 GCCCATGTCGAATGACCGGCCGATGTCACATGATGATTTATGACCTGATTAATGATAT 244
Dd		294 GCTCATGTCGAACATTTACCGCAGTGTTACATGATTTATGACVAGTAAATTAATGATAT 353
Oy		245 CAATTACGGGGTCAATTAGTTCATAGCCCATATATGAGATTCGCGTTACATAACTTACGG 304
Dd		354 CATTTACGGGGTCAATTAGTTCATAGCCCATATATGAGATTCGCGCTTACATAACTTACGG 413
Oy		305 TAAATGGCCCGCTGGAGTACCGCCCAACGACCCCGCCCATATGACGTCAATATGACGT 364
Dd		414 TAAATGGCCCGCTGGAGTACCGCCCAACGACCCCGCCCATATGACGTCAATATGACGT 473
Oy		365 ATGTTCCCATAGTAACGCCCATAGGAGATTTCCATTATGACGTCAATGGGTGAGATTTTAC 424

